# CREATION CENTRED

IN

CHRIST

VOL. II

TABLES OF VERNAL EQUINOXES

AND NEW MOONS

for 3555 years

- 1. IN OLD STYLE FROM B.C. 1622 TO A.D. 1934
- 2. IN NEW STYLE FROM THE ENGLISH REFORMATION OF THE CALENDAR, A.D. 1752 TO A.D. 1934

Computed from Prophetic Times in the Book of Daniel regarded as Astronomical Cycles

BY

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Sondon

HODDER AND STOUGHTON

27 PATERNOSTER ROW

1896





## TESTIMONIALS FROM ASTRONOMERS.

Some copies of the Tables contained in this volume were printed in 1895 and sent to a few leading astronomers in Great Britain, including Dr. Downing, Superintendent of the Nautical Almanac; Mr. Lynn, long connected with Greenwich Observatory; Dr. Dreyer, of Armagh Observatory, and Mr. Marth, of Markree Observatory. The following testimonials and letters from these astronomers express the results of their examination of the work. Dr. Downing's position, as appointed by Government to superintend the preparation of an annual volume of Astronomical Tables, containing 500 pages of important matter, Mr. Lynn's frequent and valuable contributions to astronomical literature, Dr. Dreyer's experience as formerly Editor of the Astronomical Journal "Copernicus," and as the author of various standard astronomical works, and Mr. Marth's widely known and almost unrivalled ability as a mathematician and astronomer, give ample value to their testimonies.

## Testimonial from Dr. Dreyer, F.R.A.S.

"These Tables give the date, hour and minute of every new moon from the year B.C. 1622 to A.D. 1934, as well as the Dominical letters and the time of vernal equinox for every year of this period. Hitherto chronologists who required the time of any new moon have had to calculate it from Largeteau's Tables published in the Connaissance des Temps pour l'an 1846; or, if very great accuracy was required, by Oppolzer's Syzygien-Tafeln fur den mond (Leipzig, 1881); but Dr. Guinness's Tables give the time of new moon by mere inspection without any calculation whatever. In his introduction the author illustrates the accuracy of

his tables by a comparison with the time of the first solar eclipse of each century, taken from Oppolzer's Canon der Finsternisse, and shows that his tables never differ from these more than two hours, while the differences frequently amount to only a few minutes.

"I have myself tested the Tables by means of a number of eclipses rigorously computed by Stockwell (eclipses observed in India B.c. 1386, 1301, 1250), by Schjellerup (B.C. 707, 599, and 547, observed in China), and by New comb (Arabian eclipses from the middle ages), and with the same result. These Tables are therefore somewhat more accurate than those of Largeteau, and of course vastly more convenient, as they do not entail any calculation.

"These Tables have been calculated by means of the luni-solar cycles discovered by the Swiss astronomer, De Cheseaux, about the middle of last century, but hitherto very little noticed by scientific men. The cyclical new moons thus found are given in the tables side by side with the true new moons obtained from them by equating for solar and lunar anomaly. Astronomers will be much interested in the remarkable accuracy obtained in this way by Dr. Guinness.

"The Tables will be of great practical value to chronologists and historians, who can find from them the day of the week and the age of the moon corresponding to any date. Particularly to students of Oriental history they will be invaluable, as the moon is the clock hand of Eastern nations. But they will also in many cases be of great use to astronomers as a ready means of finding, by a mere glance, the whereabouts of the moon in the sky at any time during the last three thousand years.

"J. L. E. DREYER."

"ARMAGE OBSERVATORY, April 8th, 1895."

The above testimonial from Dr. Dreyer is reprinted from

the Introduction to Volume I., as some, into whose hands these Tables may come, will not possess a copy of the earlier volume.

# Testimonial from Dr. Downing, F.R.A.S., Superintendent of the Nautical Almanac.

NAUTICAL ALMANAC OFFICE,

3, VERULAM BUILDINGS, GRAY'S INN, W.C.,

DEAR SIR,-

March 23rd, 1895.

I have examined your volume of Astronomical Tables containing Dominical letters, Vernal Equinoxes and New and Full Moons for some thirty centuries. I think you have shown that De Cheseaux' cycles of 2300 and 1040 years (by means of which your times are deduced) are not only curiosities of astronomy, but are sufficiently accurate to be turned to practical use for the computation of the positions of the Sun and Moon at distant epochs. The comparison of your results with those of Oppolzer's Canon der Finsternisse and other authorities to which you refer in the introduction would of itself be sufficient to justify you in claiming a remarkable degree of accuracy for your Tables. But in addition to this I have examined a great number of your results, and find that a discordance of about three hours between your times and those computed from various Tables that were accessible to me, is the greatest discordance to be apprehended. For any purposes, therefore, for which an error of this magnitude in distant dates is immaterial, your Tables may be used with the greatest confidence.

You have made your Tables considerably more interesting and useful by giving, in addition to the times of Mean, New and Full Moon, those of True New and Full Moon, deduced from the former by the application of the two principal inequalities.

Yours faithfully,
A. M. W. DOWNING.

## Letter from W. T. Lynn, Esq., F.R.A.S.

S, SOUTH VALE,

BLACKHEATH, S.E.,

March 25th, 1895.

DEAR SIR,-

I may now safely say that your New Tables are abundantly accurate for all historical and chronological purposes, in many of which they will doubtless be found very useful. They have evidently been computed with great care and accuracy, and the comparison with Oppolzer's Canon was a highly satisfactory check.

Yours very truly, W. T. LYNN.

## Letter from A. Marth, Esq., F.R.A.S.

MARKREE OBSERVATORY,
COLLOONEY, IRELAND,
March 16th, 1895.

DEAR DR. GUINNESS .-

Most gratefully I beg to acknowledge the receipt of your very kind letter and of your new book. As it happens we have been working in different portions of the same field, and I highly appreciate the thoroughness with which you have tilled your portion. As regards the chief aim you have at heart, the proving of Daniel's prophetic 2,300 days to refer to the soli-lunar cycle of 2,300 years, it would have been sufficient to give the list of comparisons on p.xxvii. of your Tables. That Daniel's periods were not derived from his understanding science and being in possession of "the learning of the Chaldeans" is plain from the statement that he had to ask for the meaning of the vision including the times mentioned. But if it was not intended that the revelation should be understood till a late time, and that it should remain a dark mystery to some, you will have to acquiesce in the failure of many truth-seekers to lift the veil. The bulk of your book enables astronomers to know the whereabouts of the moon at any time during these thousands of years. What I have been aiming at, but what I have not yet been able to accomplish except for a portion of that period, is to provide astronomers the data for finding the whereabouts of the old planets. If nothing too serious interferes with my working diligently at it during the next six or eight weeks I hope to get "a Table for finding by means of modern Ephemerides the whereabouts of the old planets during the six centuries A.D. 1400–2000, and also outside of these limits" ready and printed about midsummer. In comparison with your book it will be a tiny publication, the data for each year filling only a single line . . .

With grateful thanks,

Yours sincerely,

A. MARTH.

In a later letter Mr. Marth verifies the correctness of the new moons for the year B.C. 1622, the starting point of the Tables, by means of Schram's Tables. Employing Schram's data, and reducing to Jerusalem civil time, he finds the following:—

B.C.—1622.	Schram.	New Moon.	April.	$\frac{d}{5}$	$^{h}_{3}$	$m \\ 1$
17	Tables.	"	,,	5	3	38
•,	Schram.	,,	May.		10	6
,,	Tables.	,,	11	4	11	17
27	Schram.	"	June.		18	7
"	Tables.	22	,,	$^{2}$	20	2

The differences are slight for such distant dates computed by wholly different methods.

Mr. Marth has been kind enough to compute a Table by which the mean Vernal Equinoxes in this volume may be corrected for true Vernal Equinoxes. The differences are inconsiderable for the last twenty-five centuries, ranging in that period from 8 minutes to 1 h. 25 m. He has also calcu-

lated from Leverrier's Tables the length of the Tropical year at different dates, and it will be observed with interest that its length at the commencement of the Christian era, as thus deduced, 395 d. 5 h. 48 m. 56 s. corresponds exactly with its length according to the 1,040 years "Daniel cycle" discovered by De Cheseaux. Both these Tables by Mr. Marth will be found at the end of the Introduction.

I desire to acknowledge the kindness of Dr. Dreyer in reading the proof sheets of the astronomical portions of vol. i. while they were passing through the press. The following extract from one of his letters casts some additional light on the value and accuracy of the Tables.

"I certainly think that your Tables will be found very useful by historians and chronologists, at any rate I know that to me personally they will be extremely useful and convenient, as I am particularly fond of studying the history of astronomy, and have not infrequently missed a Table like yours. And it must be confessed that the lunar theory is not as yet in a sufficiently satisfactory state to enable us to calculate the places of the Moon for, say B.C. 1000, with a very much greater accuracy than that of your Tables. Whether ancient eclipses really give a much larger value for the secular acceleration than theory, is also very doubtful; from the mediæval ones Newcomb found only about 8."

I have never seen Cheseaux's book, but hope to see it the next time I am in Edinburgh, as I see there is a copy in the library of the R. Observatory, and I look forward with much interest to the reading of it.

"Once more thanking you for your kindness in presenting me with a copy of your valuable work.

"Believe me,

"Yours very truly,
"J. L. E. DREYER."

## INTRODUCTION TO THE TABLES.

A knowledge of the dates of the new and full moons and vernal equinoxes is of primary value in the study of civil and sacred history and chronology.

In the Jewish Calendar the entire series of dates is dependent on the position of the Passover, which in its turn is regulated by the time of the full moon of the vernal equinox. Similarly all the dates in the Christian Ecclesiastical Calendar depend on the position of Easter, which is determined by the time of the first full moon following the vernal equinox. The Jewish feasts of Passover, Pentecost, Tabernacles, etc., were appointed to take place on certain days of the months measuring the sacred year, while these months were reckoned from the lunar phasis, or first appearance of the new moon. Without a knowledge of the exact times of new moons and vernal equinoxes it is impossible to fix or verify the dates of a great variety and multiplicity of events in the long course of Jewish and Christian history. On the other hand, such a knowledge is of considerable practical value in the study of civil history and chronology-Egyptian, Assyrian, Babylonish, Persian, Grecian, Roman, Mohammedan, Indian, Chinese, Early, Mediæval and Modern, in all of which both solar and lunar dates, especially the dates of eclipses, are of constant use and occurrence.

The following tables give the times of all the vernal equinoxes and new moons for 3,555 years, from B.C. 1622, the probable date of the Exodus, the starting point of the Jewish Calendar, to A.D. 1934. For the convenience of students of Sacred Chronology the solar and lunar dates are

stated in Jerusalem civil time, which is 2 h. 21 m. in advance of Greenwich time.

The times of the full moons of all lunar eclipses are added, from B.C. 1207 to A.D. 1934. As solar eclipses invariably coincide with new moons, no separate statement of these is presented. The observed or calculated times of solar and lunar eclipses can be employed to verify the correctness of the new and full moons of these tables. As a matter of fact the tables have been thus verified by a careful comparison with the records of eclipse chronology, and especially with the 12,348 solar and lunar eclipses in Oppolzer's invaluable Canon der Finsternisse, from B.C. 1207 to A.D. 1934.

The Dominical letter is given for every year, and a glance at the Dominical Tables appended to this introduction will be sufficient in order to ascertain the day of the week of any of the solar and lunar dates in the tables of equinoxes and new moons.

The method employed in calculating the Tables is as follows: the Tables are based upon the primary natural cycles adjusted to the correction of the Jewish and Christian Calendars.

- 1. Before their employment of the 19 years' Lunar cycle the Jews used the cycle of 84 years (7 × 12) in the regulation of their Calendar. The error of this cycle accumulates in 15 repetitions to an entire month. Hence the primary natural cycle adjusted to its correction is 84 × 15, or 1,260 tropical years, a cycle in which the years and months very closely agree.
- 2. The Modern Jewish Calendar, especially as dating from Rabbi Hillel's Tables, A.D. 353, is based on the 19 years lunar cycle, which, as discovered by the Greek mathematician Meton, B.C. 432, still bears his name. The error of this cycle is so small (being only 2 h. 4 m.), as to give it an unrivalled position among the lesser lunar cycles, and to justify its employment as the foundation of the calendar in later Greek,

and Christian, as well as in Jewish chronology. The primary natural cycle adjusted to the correction of the 19 years cycle is that of 2,300 years, in which the error accumulates to between ten and eleven days, and thus equals the epact of a single year (employing the word "epact" in the sense of the excess of the tropical year above 12 synodic months). The 28,435 months of 121 Metonic cycles exceed 2,299 tropical years by 10 to 11 days, or the epact of the 2,300th year, and with the remaining 12 lunations of that year make 28,447 months, or 2,300 tropical years; a cycle remarkable not only for the closeness of the agreement of months and years, but as the only secular cycle known.

- 3. The cyclical character of the periods of 1,260 and 2,300 years was discovered more than a century ago by the Swiss astronomer De Cheseaux, and also that their difference, 1,040 years, forms the most accurate luni-solar cycle known. De Cheseaux considered this cycle to be absolutely accurate as a cycle of the tropical year, synodic month, and solar day. More modern measures show it to have an error of about 1½ hours; but that error diminishes as we ascend the stream of past time, and disappears altogether at about the date of the Jewish captivity in Babylon, when the length of the solar year was six or seven seconds greater than it is at present; in other words, 1,040 tropical years at the date of the Babylonish captivity very closely agreed with 12,863 lunations, and both with 379,852 solar days.
- 4. The 2,300 years cycle is not only a cycle of the tropical year and synodic month, but also (as was discovered in the preparation of the present tables) a cycle of the anomalistic month, the agreement being remarkable for its accuracy. The 840,057 days of 2,300 years are just 30,487 anomalistic months.
- 5. The 2,300 years cycle measures 40 days of the "annus magnus" of the revolution of the Solar Perigee with reference to the Equinoxes.

Employing these fundamental natural cycles as the basis of the construction of an extensive calendar, embracing the whole range of Jewish and Christian as well as the larger part of civil history, the problem we have worked out has taken the following form—given these primary cycles; let it be required, to deduce from these a complete decursus of calendar times, solar and lunar, for the period of 3,555 years, from B.C. 1622 to A.D. 1934.

The possibility of such a deduction owes its special interest and importance to the place which these cycles occupy in the volume of Revelation.

The deduction of the Tropical and Anomalistic years, and the Synodic and Anomalistic months from these cycles, is accomplished as follows:—

- (1) Tropical year.
  - (a) by 2300 y.  $840057 \text{ d.} \div 2300 = 365.24217391 \text{ d.}$
  - (b) by 1040 y.  $379852 \text{ d.} \div 1040 = 365.24230769 \text{ d.}$

(2) Anomalistic year.

By 2300 years cy.=40 days of revol. of Perigee with reference to the Equinoxes.

40 d.: 365.242 d.:: 2300 y.: 21000 y.

Trop. y. + 
$$\frac{\text{Trop. y.}}{21000}$$
 = 365 d. 6 h. 13 m. 52 s.

(3) Synodic month.

By 1040 y. cy. 379852 d. ÷12863=29 d. 12 h. 44 m. 3 s.

(4) Anomalistic month.

By 2300 y. cy.  $840057 d. \div 30487 = 27 d. 13 h. 18 m. 37 s.$ 

From the foregoing values the Sun's mean anomaly and the Moon's mean anomaly have been obtained as follows:—

## SUN'S MEAN ANOMALY.

Sun's Mean Anomaly = Synodic month × 860 Long. of Perigee.

MEAN LONGITUDE.

29·53059161937 360

500

1771 83549716220 8859 177485811 Mean Long

865·2422408026)10631·01298297820(29° 6′ 24′·28 7804 844816052

> 3326 1681669212 8287 1801672234

> > **88** 9879996978 60

> > 233 92799818680 219 14584448156

14 78265870524 60

88 695922231440 73 04844816052

15 647474070920 14 609689632104

1 03778443881.60 7304844816502

> 30729995716580 29219379264208

1510616452872

LONG. OF PERIGEE.

10631 • 0129 829732

21000× 365-2422408026

21,000 years

365 242 2408026 7304 844 816052

Tong. Perigee. 7670 087.0568546)10681.0129829732(0° 0′ 4″.99

60

637860-7789783920

60

382716467387035200 3068034 82274184

759129 851128512 690307 835116914

 $\begin{array}{c} 68822\,0160115980 \\ 61360\,6964548368 \end{array}$ 

7461 3195567612

29° 6′ 24″28 Mean Long. 0 0 4 99 Long. Perigee.

Sun's Mean Anomaly = 29 6 19 29 = Mean Long. - Long. Per

#### MOON'S MEAN ANOMALY.

Moon's Mean Anomaly = (Synodic Month-Anomalistic Month) × 360. Anomalistic month 1.97599457797 (Synodic - Anomalistic) 11 855967467820 59 2798373391 Anomalistic month = 27.5545970414)711.35804806920(250 48' 58".7198 551 091940828 160 2661072412 137 7729852070 22 4931220342 60 134 95873220520 110 2183881656 24 74034403960 22 04367763312 269666640648 16 179998438880 1377729852070 2402699918180 2204367763312 1983321548680 1928821792898 544997557820

With the values of the Sun's mean anomaly, and the Moon's mean anomaly thus obtained, the following tables have been calculated:—

275545970414 2694515874060 2479918788726 2146021408340

- (1) For the present century. The new moon of March, 1844, being taken as the starting point, or terminus a quo of the series.
  - (2) For sixty centuries.

#### LONG. OF PERIGEE.

10631 · 0129 829732

21000 × 365·2422408026

21,000 years

365 242 2408026 7304 844 816052

Tong. Perigee. 7670 087·0568546)10631·0129829732(0° 0′ 4″·99

60`

637860.7789783920

382716467387035200 3068034 82274184

759129 851128512 690307 835116914

68822 0160115980 61360 6964548368

7461 3195567612

290 6' 24."28 Mean Long. 0 4.99 0 Long. Perigee.

Sun's Mean Anomaly = 29 6 19 29 = Mean Long. - Long. Perigee.

0

#### MOON'S MEAN ANOMALY.

With the values of the Sun's mean anomaly, and the Moon's mean anomaly thus obtained, the following tables have been calculated:—

- (1) For the present century. The new moon of March, 1844, being taken as the starting point, or terminus a quo of the series.
  - (2) For sixty centuries.

xviii OLD STYLE.

Year.	Mean New Moon in March. Astron, Time. Long. Greenwich.	Mean New Moon in March. Civil Time. Long. Jerusalem.	Sun's Mean Anomaly.	Moon's Mean Anomaly.
	Days h. m. s.	Days h. m. s.	s. ° /	s. ° /
1800 1 2 8 4 4 5 6 7 8 9 1810 11 12 18 14 15 16 17 18 19 1820 21 22 23 24 25 26 27 28 29 1830 81 82 83 84 85 86 87 88 89 1840 81 82 83 84 85 86 87 88 88 89 1840 80 81 81 82 83 84 85 86 87 88 88 88 88 88 88 88 88 88	18	18       14       87       25         2       28       26       2         21       20       58       42         11       5       47       20         29       3       20       0         18       12       8       37         7       20       57       15         26       18       29       55         15       3       18       38         4       12       7       10         28       9       99       88       23         28       7       11       3       23         28       7       11       3       23         28       7       11       3       3         16       15       59       41       6       0       48       18         24       22       20       55       14       21       18       23       23       21       12       21       18       44       40       50       50       41       40       50       70       18       29       27       71       15       19       32       21       22 </td <td>2 28 18 29 50 50 7 8 29 2 17 45 0 3 2 24 38 2 18 2 21 3 2 2 18 3 2 2 18 3 2 2 12 3 3 2 2 18 40 2 2 18 40 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 19 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 19 3 3 2 2 10 19</td> <td>4 8 18 6 18 2 18 48 30 11 0 8 18 18 18 18 18 18 18 18 18 18 18 18 1</td>	2 28 18 29 50 50 7 8 29 2 17 45 0 3 2 24 38 2 18 2 21 3 2 2 18 3 2 2 18 3 2 2 12 3 3 2 2 18 40 2 2 18 40 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 18 3 2 2 19 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 3 3 2 2 10 19 3 3 2 2 10 19	4 8 18 6 18 2 18 48 30 11 0 8 18 18 18 18 18 18 18 18 18 18 18 18 1

Year,	A	Men Man stron g. Gr	rch. . Tim	.e.		Mar Civil	v Mod ch. Time erusa		Mean	Sun's Ano	a maly.	Moon's Mean Anomaly.		
	Days	h.	m.	s.	Days	h.	m.	s.	s.	0	,	8.	0	,
1850 552845567890 663666667890 1877777777777777777777777777779999999999	0 19 87 16 53 12 21 98 17 7 25 4 8 22 11 0 19 8 6 6 6 12 21 1 8 22 11 0 19 8 6 6 6 12 21 10 21 1	22 19 4 10 19 17 10 8 17 14 28 5 14 29 5 14 29 18 19 19 17 10 19 17 16 19 19 19 19 19 19 19 19 19 19 19 19 19	$\begin{smallmatrix} 08211481481482544255442554425542568656645764576457648768876887688764876887688768876887688$	2108866315814775220085581507868829974588188644229	1 20 88 27 17 6 21 13 8 21 100 29 15 5 4 28 11 1 20 9 27 6 6 24 18 2 21 10 28 17 26 14 4 23 12 20 19 9 28 6 5 24 14 21 10 29 7 17	$\begin{smallmatrix} 1 & 9 & 7 & 6 & 1 & 2 & 2 & 7 & 4 & 8 & 2 & 2 & 2 & 2 & 4 & 3 & 1 & 1 & 2 & 2 & 8 & 8 & 7 & 1 & 6 & 1 & 2 & 2 & 1 & 8 & 2 & 2 & 1 & 8 & 2 & 2 & 1 & 8 & 2 & 2 & 1 & 1 & 2 & 2 & 2 & 2 & 1 & 2 & 2$	21425425425436538653865386536547684768758276875879879819	29 10 48 28 6 43 15 15 15 16 6 6 14 17 17 15 18 20 40 40 40 40 40 40 40 40 40 40 40 40 40	222522222222222222222222222222222222222	10 10 10 10 10 10 10 10 10 10	19 42 57 20 51 13 45 52 45 53 54 54 55 56 57 58 58 59 50 50 50 50 50 50 50 50 50 50	875448100 109866542100 109766542200 1087664821 1199754820	$\begin{smallmatrix}2&8\\18&23&3\\19&9&19\\24&44&20\\29&9&15\\25&0&0\\225&5\\121&0&6\\6666&22&1\\77&2&2&22\\7&133\\23&23&23\\24&24&20\\225&1&21\\226&2&1&2\\227&2&2&2&2$	47 411 486 410 486 410 486 410 486 410 486 410 486 410 486 486 486 486 486 486 486 486 486 486

xx NEW STYLE.

Year.		Mare tron.		) <b>.</b>		Mar 'iv <b>i</b> l			Mean	Sun's Anor		Mean	Ioon' Anoi	
	Days	h	m.	8.	Days	h.	m.	8.	8	•	/	8	٥	,
1800 1 2 8 4 5 6 7 8 9 1810 111 12 13 14 15 16 17 18 19 1820 21 22 23 24 25 26 27 28 29 1830 811 82 83 84 85 86 87 88 89 80 81 81 81 82 83 84 85 86 87 88 89 80 80 80 80 80 80 80 80 80 80	25 14 8 22 11 0 19 8 26 15 5 14 12 10 10 21 21 21 21 21 21 21 21 21 21	2 0 9 18 15 0 22 6 15 13	10 59 48 20 9 58 30 19 7 40 29 50 39	44 21 58 39 16 57 34 11 52	25 14 4 23 11 0 19 27 16 5 21 10 28 18 7 26 14 22 12 12 12 13 26 14 27 16 16 17 26 18 27 16 16 17 18 18 18 18 18 18 18 18 18 18	8 17 14 23 8 6 14 12 21 6	31 20 9 41 30 19 51 40 28 1 50 22 11 0	8 49 26 3 44 21 58 39 16 57 34 11 52	222222222222222222222222222222222222222	6 24 18 22 21 100 29 18 18 22 25 16 16 18 22 24 21 21 21 21 21 21 21 21 21 21 21 21 21	15 33 54 9 32 47 10 25 41	4 2 0 0 0 10 8 7 7 6 5 3 2 2 1 1 11 11 10 8 8 6 6 6 4 4 3 3 2 2 0 11 1 9 8 7 7 5 5 4 4 3 1 1 0 1 1 9 8 6 6 5 5 4 2 2 1 0 1 0 9 8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8 18 27 8 18 28 8 14 28 9 9 12 8 4 14 19 9 15 24 4 10 20 9 15 12 16 6 16 12 17 17 17 26 6 16 12 22 27 77 17 22 2	18 6 44 08 6 43 0 7 55 42 9 7 55 11 9 6 44 20 8 6 52 20 7 5 54 2 9 6 44 20 8 6 52 20 7 5 54 2 1 5 6 4 4 20 8 6 52 20 7 5 5 4 5 2 20 6 4 5 2 20 6 6 7 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7

Year.	As	Mar tron.	7 Moo ch. Time enwi		(	Mar Zivil ?			Mean	Sun's Anoi	naly.	Moon's Mean Anomaly.				
	Days	h.	m.	8.	Days	h.	m.	8.	8	0	,	8	0			
1850 51 52 53 54 55 56 57 58 59 1860 61 62 63 64 65 66 67 71 72 73 74 75 76 77 78 79 1880 81 82 83 84 85 86 87 87 88 89 189 189 189 189 189 189	12 20 9 28 17 6 25 14 8 22 10 0 199 8 6 25 12 1 20 9 28 17 6 21 14 8 22 10 0 19 8 6 25 12 1 20 9 27 17 6 25 11 10 0 19 10 10 10 10 10 10 10 10 10 10 10 10 10	8 12 9 9 18 8 8 0 0 7 15 15 16 12 22 2 10 10 11 11 11 11 11 11 11 11 11 11 11	12 45 45 6 54 48 16 4 75 86 20 14 47 7 46 5 57 46 5 57 1	45 27 4 41 22 59	18 20 10 20 16 25 14 22 11 19 8 27 16 5 23 13 2 2 11 4 4 22 11 10 19 8 26 16 5 24 11 2 11 10 26 16 5 24 11 2 11 10 2 1	23 23 8 8 177 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	44 83 66 54 27 15 47 25 14 87 14 87 15 14 87 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	17 54 82 18 50 81 45 45 41 22 59		20 20 10 10 10 10 10 10 10 10 10 10 10 10 10	58 15 81 15 9 9 25 41 16 18 18 18 18 18 18 18 18 18 18		25 44 100 200 200 200 200 200 200 200 200 200	1 499 266 14 1 1 888 89 26 6 50 16 27 7 16 6 6 50 16 2 2 88 9 7 7 16 6 6 7 7 2 4 8 9 7 7 2 4 8 9 9 7 7 2 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		

# FIRST MEAN NEW MOON WITH MEAN ANOMALIES OF THE SUN AND MOON, FOR SIXTY CENTURIES.

No.	Mea	ın Lu	natio	ns.	Sun's M	ean A	nomaly.	Moon's Mean Anomaly.				
	Days	h.	m.	8.	s.	٥	,	s.	0	,		
1 2 3 4 5 6 7 8 9	29 59 88 118 147 177 206	12 1 14 2 15 4 17	44 28 12 56 40 24 8	3 6 9 12 16 19 22	0 1 2 3 4 5	29 28 27 26 25 24 23	6 13 19 25 32 38 44	0 1 2 3 4 5 6	25 21 17 13 9 4	49 38 27 16 5 54 48		
8 9 10 11 12 13	236 265 295 324 354 883	5 18 7 20 8 21	52 36 20 4 48 32	25 28 31 34 37 41	7 8 9 10 11 0	22 21 21 20 19 18	51 57 3 10 16 22	6 7 8 9 10 11	26 22 18 18 9 5	32 21 10 59 48 37		
1/2	14	18	22	2	0	14	88	6	12	54		

On the basis of the preceding Values and Tables the new moons for 3555 years, from B.C. 1622 to A.D. 1934 have been calculated, and also the full moons of all lunar eclipses from B.C. 1207 to A.D. 1934.

As a specimen of the calculation of the new moons, and of the full moons of lunar eclipses for a single year, the following for the year 1794 will show how the true moons have been obtained from the mean by simply twice equating for solar and lunar anomaly. The moon's mean anomaly has been used, and not the equated anomaly, as the error in using the mean anomaly is very small, and the saving of labour, in calculating such extensive tables, considerable. The eclipses in the margin are from Oppolzer's Canon, and were inserted in this way in the tables throughout, from B.C. 1207 to A.D. 1934, for purposes of comparison and verification. The full moons in the table are indicated by a small circle prefixed to their month dates.

# THE FIRST SOLAR ECLIPSE IN EACH CENTURY, FOR 3,000 YEARS;\*

From B.C. 1100 to A.D. 1900. Stated in Jerusalem Civil Time.

Year.	Oppolzer's Canon, Sol. Ecl.	Tables, True New Moon.	Difference .
B C.	d. h. m.	d. h. m.	
1100	JAN 25 0 50	Jan 25 0 30	-20m.
1000	Mar 29 14 8	Mar 29 14 33	⊣ 25m.
900	MAY . 2 0 5	May . 2 2 29	+2b. 24m.
800	June . 4 8 11	June . 4 9 22	+1h. 11m.
700	FEB 11 14 15	Feb 11 14 29	+14m.
600	Mar 17 0 56	Mar 17 2 38	+1h. 42m.
500	APRIL . 19 11 0	April. 19 11 24	+24m.
400	June . 21 20 5	June . 21 18 56	-1h.9m.
300	Jan 29 22 51	Jan 30 0 12	+1h. 21m.
200	MAR 4 12 6	Mar 4 11 56	-10m.
100	MAY . 6 23 39	May . 6 22 15	-1h. 24m.
A.D.			
1	June . 10 6 12	June . 10 4 39	-1h. 33m.
100	FEB 27 22 0	Feв 27 22 45	+45m.
200	APRIL. 1 12 6	APRIL. 1 11 27	-39m.
<b>30</b> 0	MAY . 5 16 35	May . 5 15 2	-1h. 33m.
<b>4</b> 00	JAN 12 18 22	Jan 12 18 57	+35m.
500	FEB 15 11 54	FEB 15 11 2	-52m.
600	Mar 20 18 41	Mar 20 17 20	-1h. 21m.
700	MAY . 23 9 4	MAY . 23 7 46	-1h. 18m.
800	June . 26 2 44	June . 26 3 1	+17m.
900	Mar 4 3 43	MAR 4 2 24	—1h. 19m.
1000	APRIL. 7 11 11	APRIL . 7 10 14	-57m.
1100	MAY . 11 4 85	MAY . 11 4 37	+2m.
1200	JAN 18 1 57	Jan 18 0 55	-1h. 2m.
1300	FEB 21 10 42	FEB 21 10 8	-34m.
1400	MAR 26 4 46	MAR 26 4 40	-6m.
1500	MAY . 28 2 15	MAY . 28 2 12	-3m.
1600	Jan 6 7 27	JAN 6 7 16	-11m.
1700	FEB 9 1 55	FEB 9 1 52	-3m.
1800	APRIL. 12 2 53	APRIL . 12 2 36	—17m.
1900	MAY . 15 17 11	May . 15 17 24	+13m.
		Mean differenc	e -10m.

<sup>\*</sup> Accurately 3000-1=2999 years.

Year and Month.	Mean New Moon. (O Full Ecl.)	A	Moon's Mean Anomaly.	First Equation.	Second Equation.	True New Moon. () Full Ecl.)	Eclipses from Oppolzer's Canon.
1794 JAN  O FEB  MAR  APRIL .  MAY  JUNE  O AUG  SEPT  OCT  NOV  Dec	d. h. m. 20 6 50 4 1 12 18 19 34 20 8 18 18 21 2 18 9 46 16 22 80 16 11 14 31 5 36 14 28 58 13 12 42 13 1 26 11 14 10 11 2 54	s. ° ' ' 1 1 12 1 15 45 2 0 18 2 29 25 8 28 81 4 27 88 5 26 44 6 25 50 0 28 7 24 57 8 24 8 9 28 9 10 22 16 11 21 22	s. ° ', 10 26 16 5 9 11 11 22 5 0 17 58 1 18 42 2 9 31 3 5 20 4 1 9 10 14 4 4 26 58 5 22 47 6 18 36 7 14 25 8 10 14	h. m. +5 5 5 -3 44 +1 15 -2 47 -6 24 -8 57 -9 51 -8 44 +6 40 -5 42 -1 19 +3 22 +7 15 +9 29	h. m. +2 14 +3 42 +4 12 +3 39 +2 12 +0 14 -1 48 -2 40 -3 24 -4 10 -3 54 -2 37 -0 38	d. h. m. 20 14 9 4 0 32 19 0 81 20 9 48 18 18 17 18 3 1 16 12 58 16 0 42 31 9 42 31 9 14 14 14 52 18 7 18 18 10 54 11 11 45	*20 18 57 O4 0 44 *19 0 23 *16 0 32 O31 9 51 *14 14 48

# CORRESPONDENCE OF DATES IN THE TABLES WITH THOSE IN OPPOLZER'S "CANON."

As fairly illustrating the correspondence of the Tables in this volume with the eclipses in Oppolzer's Canon der Finsternisse, the following extract presents the first solar eclipse in each century, for 3,000 years, as given in Oppolzer's Canon, and the corresponding True New Moon of the Tables. As the latter are only twice equated, and calculated on somewhat different data from the new moons of Oppolzer's eclipses, they ought to differ from them; but the mean difference is found to be less than an hour. The accuracy of the Tables is thus sufficient for all ordinary historical and chronological purposes.

# THE FIRST SOLAR ECLIPSE IN EACH CENTURY, FOR 3,000 YEARS;\*

# FROM B.C. 1100 TO A.D. 1900.

## STATED IN JERUSALEM CIVIL TIME.

Year.	Oppolzer's Canon, Sol. Ecl.	Tables, True New Moon.	Difference .
R C. 1100 1000 900 800 700 600 500 400 800 200 100 A.B. 1 100 200 300 400 500 600 700 800 900 1100 1100 1200 1300 1400 1500 1600 1700 1800 1900	Jan.   25   0   50	Jan.   25   0   30	-20m. +25m. +2h. 24m. +1h. 11m. +14m. +1h. 42m. +24m1h.9m. +1h. 21m10m1h. 88m. +45m89m1h. 88m. +35m52m1h. 18m. +17m1h. 19m57m. +2m6m3m11m8m11m3m17m. +18m.
		Mean difference	e —10m.

<sup>\*</sup> Accurately 3000-1=2999 years.

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# FIRST EQUATION FOR THE TIMES OF NEW AND FULL MOON.

Galloway. Enc. Brit.

		_			A	RGUN	IENT	r—1	's M	[EAN	An	OMA	r.y.						
0		Cs —			Is_			IIs			ill	3		IV <sup>s</sup>	3				0
0	h. 0	m. 0	s. 0	h. 4	т. 34	s. 26	h. 8	m. 10	s. 3	<i>h</i> . 9	m. 48	<i>s</i> . 59	л. 8	m. 50	s. 0	ћ. 5	m. 14	s. 24	30
1 2 3 4 5		9 18 28 37 47	28 56 24 52 19	5	42 51 59 7 16	54 18 38 54 4		15 20 26 31 36	32 52 5 9 6		49 50 50 50 50	42 14 35 45 44		45 40 84 29 24	11 10 59 36 5	5 4	5 55 45 36 26	2 34 59 18 31	29 28 27 26 25
6 7 8 9 10	0	56 6 15 24 84	45 10 35 59 21		24 32 40 48 55	10 12 9 1 48	8	40 45 50 54 58	53 32 2 24 36	9	50 50 49 48 47	33 10 36 51 55	8 7	18 12 6 0 53	23 30 27 14 50	4 3	16 6 56 46 36	38 40 3 27 13	24 23 22 21 20
11 12 13 14 15	1 2	43 53 2 ·11 20	42 2 20 37 51	6	3 11 18 26 33	29 5 86 1 20	9	2 6 10 13 17	40 34 20 55 22		46 45 48 42 40	48 29 59 18 26		47 40 33 26 19	17 35 42 40 28	8 2	25 15 5 54 43	54 31 3 31 56	19 18 17 16 15
16 17 18 19 20	2 3	30 39 48 57 6	4 15 23 29 33	7	40 47 54 1 8	33 40 41 36 24		20 23 26 29 32	38 46 43 30 8		38 36 33 31 28	22 8 42 4 16	7 6	12 4 56 49 41	7 37 58 11 14	2	33 22 11 0 50	16 34 48 59 8	14 13 12 11 10
21 22 23 24 25		15 24 33 42 51	34 33 28 21 10		15 21 28 34 40	6 41 9 30 44		34 36 39 40 42	36 53 0 57 44		25 22 18 15 11	16 5 44 10 26	6 5	33 24 16 8 59	9 55 33 3 26	1 0	39 28 17 6 55	14 18 20 20 19	9 8 7 6 5
26 27 28 29 30	3 4 4	59 8 17 25 34	56 39 18 54 26	88	46 52 58 4 10	52 50 42 26 3	9	44 45 47 48 48	20 46 1 5 59	9 8	7 3 59 54 50	31 25 8 39 0	3	50 41 32 23 14	39 47 46 38 24	0	44 83 22 11 0	17 13 9 5 0	4 3 2 1 0
۰		xī			‡ x			ı*			vii.	r		vii	 :		vi +		•

xxvii

# SECOND EQUATION FOR THE TIME OF NEW AND FULL MOON.

	Argument—Sun's Mean Anomaly.																		
•		0 +			I +	-		II +			111			IV +			V +		0
0	л. 0	m. 0	s. 0	h. 2	nı. 8	<b>s.</b> 39	h. 3	m. 40	s. 48	h. 4	т. 11	s. 50	л. З	m. 35	s. 30	л. 2	т. З	s. 21	30
1 2 3 4 5		4 9 18 18 22	30 31 31 30		12 16 20 23 27	30 17 .8 45 25		42 44 46 48 50	54 56 54 48 37		11 11 11 10 10	41 28 10 48 20		33 30 28 26 23	13 52 28 0 29	1	59 55 51 48 44	35 47 56 4 10	29 28 27 26 25
6 7 8 9 10		26 81 85 40 44	59 28 55 23 49		31 34 38 41 44	1 85 6 84 59	3	52 54 55 57 58	22 3 39 11 38		9 9 8 7 6	49 13 32 47 58		20 18 15 12 9	53 15 33 47 58		40 36 32 28 24	14 17 17 16 14	24 23 22 21 20
11 12 13 14 15	0	49 58 58 2 6	15 89 8 25 46	2 3	48 51 54 58 1	20 38 53 5 13	4	0 1 2 8 4	1 20 33 48 48		6 5 4 2 1	4 6 3 56 44	3 2	7 4 1 58 55	6 11 12 11 6	1	20 16 11 7 3	10 5 59 51 42	19 18, 17 16 15
16 17 18 19 20		11 15 19 28 28	6 24 41 56 10		4 7 10 13 16	18 19 16 10 0		5 6 7 8 9	48 44 35 21 3	8	0 59 57 56 54	28* 8 44 15 42		51 48 45 42 38	58 47 33 16 57	0	59 55 51 46 42	32 22 10 57 43	14 13 12 11 10
21 22 28 24 25		32 36 40 44 48	22 32 41 47 51		18 21 24 26 29	46 29 8 48 14		9 10 10 11 11	41 14 42 5 24		53 51 49 47 45	5 24 38 49 56		35 32 28 25 21	35 10 42 12 40		38 34 29 25 21	29 14 59 48 27	9 8 7 6 5
26 27 28 29 80	1 2 2	52 56 0 4 8	53 51 46 89	3	31 34 36 38 40	40 3 22 37 48	4	11 11 11 11 11	39 48 53 54 50	3	43 41 39 37 35	58 57 52 43 30	2	18 14 10 7 3	5 27 47 5 21	0	17 12 8 4 0	9 52 35 18 0	4 3 2 1 0
0	$\overline{x}$							īx			vii	<u> </u>		vII			vī		0

<sup>\*</sup> Printed 3-0-28 in Encyclop. Brit.

To find the mean and true new moons for past or future centuries from those of the present century given in the foregoing tables, it is only necessary to apply the century corrections, and take out the equations, as shown in the following calculation of the mean and true moons of March. 1744:—

MEAN NEW MOON.	Sun's Anomaly.	MOON'S ANOMALY.
d hms	g ° ,	s ° /
7 6 1 39 4 8 12 14	2 16 32 0 3 20	4 12 22 8 14 47
2. 21.49.25	2 13 12	7 27 85

	2. 21.49.25			
1st Equation 2nd Equation	$+ 838 \\ + 43$			
True New Moon Mar., 1744	3. 10. 30. 25.			

March, 1844 100 Years

To find the subsequent mean and true new moons for any particular year from those of the initial month of March, add the quantities given in the appropriate Table (Table of 13 lunations) to those of March, and take out the equations for the sun's and moon's anomaly. Example, to find the mean and true new moons for April, 1744:—

1	MEAN	NE	w.	Moon.	Sun's	An	OMALY.	Moon's	A.N	OMALY.
Mar., 1744 1 Lunation	<b>a</b> <b>2</b> 29	- 21 4		-		13 29	12		27 25	, 85 49
April, 1st Equation 2nd Equation	1. 1 + +	10. £	50	28.	3.	12.	18.	8.	23.	24
True New Moon April, 1744	2.	0. 9	28.							

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LETTER.
DOMINICAL

DEC.	20082288888888888888888888888888888888
Nov.	12884780828888888888888888888888888888888
Ocr.	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
SEPT.	100 8 4 7 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Aug.	1 2 2 2 4 7 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Jury	1 2 2 2 4 7 2 0 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Trve	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
M.v.	12888888888888888888888888888888888888
-	1 1 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2
-	AAA 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
.	28 28 28 28 28 28 28 28 28 28 28 28 28 2
	AN.  1.2 2 4 7 3 5 4 2 5 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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LETTER.	
DOMINICAL	

DEC.	1228476028828828282828282828282828282828282828
Nov.	128282828282828282828282828282828282828
Ocr.	200×40000000000000000000000000000000000
SEPT.	1 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Aug.	12284700000000000000000000000000000000000
July	110004700000000000000000000000000000000
JUNE	1138478888888888888888888888888888888888
MAY	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
APRIL	1 2 3 8 4 7 6 6 7 11 12 12 12 12 12 12 12 12 12 12 12 12
MAR.	11
FEB.	11
JAN.	28 0 28 28 28 28 28 28 28 28 28 28 28 28 28

DEC.	1988 288 288 288 288 288 288 288 288 288
Nov.	100040000011211121110000223332323333333333
Ост.	
SEPT.	12 0 0 4 70 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Aug.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Jul	128478084584585588888888888888888888888888
JUNE	28889882888888888888888888888888888888
Max	1988 288 288 288 288 288 288 288 288 288
APRIL	1225450000000000000000000000000000000000
Mar.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
FEB.	10004000000000000000000000000000000000
JAN.	10004000000000000000000000000000000000

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	CITILIDE OF	
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DEC.	12 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Nov.	08888888888888888888888888888888888888
Ocr.	1 2 2 2 4 7 2 0 2 1 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2
SEPT.	28 28 28 28 28 28 28 28 28 28 28 28 28 2
Aug.	2888888888888888888888888888888888888
July	12888888888888888888888888888888888888
JUNE	28 28 28 28 28 28 28 28 28 28 28 28 28 2
Max	1.000420001121214755722222222222222222222222222222
APRIL	28 28 28 28 28 28 28 28 28 28 28 28 28 2
Mar.	0.888888888888888888888888888888888888
FEB.	28 28 28 28 28 28 28 28 28 28 28 28 28 2
JAN.	1 2 2 2 4 7 6 5 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

9 1	7 2 2 2 4 1 0 0 0 0 0 0 1 1 3 1 2 4 2 1 3 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Nov.	
Ocr.	128845667888888888888888888888888888888888
SEPT.	1888 888 888 888 888 888 888 888 888 88
Aug.	1988 28 28 28 28 28 28 28 28 28 28 28 28 2
July	128 4 7 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2
JUNE	82822222222222222222222222222222222222
MAY	1388282828282828282828282828282828282828
APRIL	100040000011212112121212222222222222222
MAR.	28888288828888288888288888888888888888
FEB.	1 0 0 0 4 1 0 0 0 0 0 1 1 0 1 0 1 1 1 2 0 0 0 2 2 3 3 3 3 2 2 3 8 8 8 8 8 8 8 8 8 8 8
JAN.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

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LETTER.	
DOMINICAL	

DEC.	0.35, \$4.50, \$6
Nov	28 0 2 4 7 0 0 0 0 1 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2
Ocr.	122240001121214731731222222222222222222222222222
SEPT.	0888888888888888888888888888888888888
Аив.	1 2 2 2 4 7 0 0 0 11 12 12 14 17 18 18 28 28 28 28 28 28 28 28 28 28 28 28 28
July	11
JUNE	8088888888888888888888888888888888888
Max	10004000000000000000000000000000000000
APRIL	120040000000000000000000000000000000000
MAR.	1288478888888888888888888888888888888888
FEB.	10004000000000000000000000000000000000
JAN.	12888888888888888888888888888888888888

# DOMINICAL LETTER. F.

DEC.	122240000001132247357382888888888888888888888888888888888
Nov	1 0 0 0 4 0 0 0 0 1 1 2 1 2 1 4 7 3 1 7 2 1 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Ocr.	12004000001122214557582222222222222222222222222222222222
Sept.	0 3 4 5 5 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Aug.	12882888888888888888888888888888888888
Julx	12888888888888888888888888888888888888
JUNE	1288478888888888888888888888888888888888
MAY	HORS SEE SEE SEE SEE SEE SEE SEE SEE SEE S
APRIL	12884700000000000000000000000000000000000
MAR.	
FEB.	48.08 4 5 5 5 6 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1
JAN.	18888888888888888888888888888888888888

Dec.	1000 4 ro 0 ro 0 0 11 12 12 14 10 10 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20
Nov.	1288 4 7 6 7 8 9 8 1 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2
Ocr.	122847000001112114118182828282828282828282828282828
SEPT.	200840000000000000000000000000000000000
Aug.	1222478888888888888888888888888888888888
Лигх	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
JUNE	88882222222222222222222222222222222222
MAY	128 28 28 28 28 28 28 28 28 28 28 28 28 2
APRIL	2888888888888888888888888888888888888
MAR.	12828888888888888888888888888888888888
FEB.	12828282828282828282888888888888888888
JAN.	10004000000000000000000000000000000000

A. G.
Letters.
OMINICAL
YEAR, -L
BISSEXTILE

JAM.         FERT.         MAL.         APRIL.         MAX.         JUNY         JUNY         AUG.         SEPT.         OCT.         NOY.         DEC.           1 M.         2 T.         1 T.         2 T.         2 T.         2 T.         1 T.         1 T.         2 T.         3 T. <t< th=""><th></th><th></th></t<>		
N.         Feb.         MAn.         April         Mat.         June	Dec.	
N.         FEB.         MAR.         APRIL         MAY         JUNE         JULY         AUG.         SEPT.         OCC.           N.         2 Th         2 Th         2 Th         2 Th         2 Th         2 Th         2 Sh         2 Th         4 Nh         4 Nh<	Nov.	
Name	Ocr.	
N.         FEB.         MAR.         APHIL         MAX         JUNE         JULY         AI           Th.         2 Th.	SEPT.	
N.         FEB.         MAn.         April         MAY         June         Jr           M.         2 Th         2 Th         2 M         2 W         2 Sa         2 Sa         3 Sa	Aug.	128847667789999999999999999999999999999999
Name	July	03888888888888888888888888888888888888
N	JUNE	128.84.00 011 01 00 00 01 00 00 00 00 00 00 00
N.         FEB.         MAH.         AAAH.           M.         T.         MAH.         AAAH.         AAAH.           T.         T.         T.         AAAH.         AAAH.         AAAH.           T.         T.         T.         AAAH.	MAY	12888888888888888888888888888888888888
N	APRIL	2888888888888888888888888888888888888
N N N N N N N N N N N N N N N N N N N	MAR.	1100047000111001110000420011100000111000001110000011100000000
JAN.  110  120  130  130  130  130  130  130	Fen.	28898888888888888888888888888888888888
	JAN.	1120040000011222415378222222222222222222222222222222222222

## BISSEXTILE YEAR—DOMINICAL LETTERS. C. B.

Dec.	1122 8 4 70 20 7 20 11 31 14 17 15 12 12 28 28 28 28 28 28 28 28 28 28 28 28 28
Nov.	1228470000011212147512822222222222222222222222222222222222
Ocr.	122247200001121214713122222222222222222222222222222
Sept.	122247362823232322322322322322322232222222222
Aug.	12888888888888888888888888888888888888
July	12884786282828282828288888888888888888888
JUNE	2888888888888888888888888888888888888
May	2888888888888888888888888888888888888
APRIL	2888888888888888888888888888888888888
MAR.	128.88.88.88.88.88.88.88.88.88.88.88.88.8
Feb.	12847808222222222222222222222222222222222
JAN,	12888888888888888888888888888888888888

## BISSEXTILE YEAR.—DOMINICAL LETTERS. É. D.

Dec.	12
Nov.	88888888888888888888888888888888888888
Ocr.	T 3 3 4 7 3 0 6 0 5 1 1 2 1 2 1 4 7 7 5 1 5 1 9 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
SEPT.	1 2 2 4 7 2 0 2 1 1 2 2 2 4 7 7 5 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Ала.	\$ 0 M H F H F S 0 M H F S 1 M H F S
Jurx	PHT % 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
JUNE	1284730450000000000000000000000000000000000
Max	
APRIL	2888888888888888888888888888888888888
Mar.	nasarastassessessessessessessessessessessessesse
FEB.	122544525525555555555555555555555555555
JAM.	122844.000 00 01 11 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13

BISSEXTILE YEAR,—DOMINICAL LETTERS. G. F.

區	2888888888888888888888888888888888888
Nov.	+ 8 ° ° × ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °
Ост.	10004000011111141011111111111111111111
Sept.	1988478788888888888888888888888888888888
Aug.	122 84 7 2 0 0 0 1 1 2 2 2 4 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Јськ	HESE 28 28 28 28 28 28 28 28 28 28 28 28 28
JUNE	28.28.28.28.28.28.28.28.28.28.28.28.28.2
Mar	100004000711110000740007411111111111111
APRIL	2888888888888888888888888888888888888
MAR.	10004000000000000000000000000000000000
FEB.	1 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
JAN.	1 2 2 2 4 7 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

BISSEXTILE YEAR,—DOMINICAL LETTERS. B.A.

Dec.	19898898888888888888888888888888888888
Nov.	12264700728000000000000000000000000000000000
Ocr.	1000400000011381473178193232222222
SEPT.	128473688888888888888888888888888888888888
Aug.	12884736 2888888888888888888888888888888888888
July	28.88.88.88.88.88.88.88.88.88.88.88.88.8
JUNE	12884766 200 511 52 54 7 5 5 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
MAY	1288 2888 2888 2888 2888 2888 2888 2888
APRIL	82828282828282828282828282828282828282
MAR.	10004000000000000000000000000000000000
FEB.	198476000000000000000000000000000000000000
JAN.	28.28.28.28.28.28.28.28.28.28.28.28.28.2

## BISSEXTILE YEAR.—DOMINICAL LETTERS. D.C.

Dec.	1122247001121212121212122222222222222222
Nov.	10004000001111111111111111111111111111
Ocr.	11009448828282828282828282828282828282828282
SEPT.	8888888888888888888888888888888888888
Aug.	1 0 0 0 4 0 0 0 0 0 1 1 1 2 1 2 1 2 1 2 2 2 2 2 2
July	1.22.47.00.2011 21 25 14 25 25 28 28 28 28 28 28 28 28 28 28 28 28 28
JUNE	1288 2888 2888 2888 2888 2888 2888 2888
Max	28 88 88 88 88 88 88 88 88 88 88 88 88 8
A PRIT.	
, N	120 8 4 70 0 0 0 0 1 1 2 2 2 4 1 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	- 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	1 2 3 8 4 7 6 6 7 5 8 8 2 8 2 8 2 8 2 8 2 8 8 8 8 8 8 8 8

BISSEXTILE YEAR.—DOMINICAL LETTERS. F.E.

	A ST WAY
Dec.	TOO TOO TO THE TENT OF THE TEN
Nov.	Lassaron - oo o o o o o o o o o o o o o o o o
Oct.	28 88 88 88 88 88 88 88 88 88 88 88 88 8
SELT.	2888888888888888888888888888888888888
Aug.	12224700122247357232828232882328832883368833888338883388
July	12224700 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
JUNE	CAMENTA SOUTH SET
MAY	12888288888888888888888888888888888888
APRIL	120040000000000000000000000000000000000
MAR.	1888888888888888888888888888888888888
Feb.	12888888888888888888888888888888888888
JAN.	12888888888888888888888888888888888888

## DOMINICAL LETTER TABLES.

The Dominical letter of each year is stated in the Tables of quinoxes and New Moons. To find the day of the week scertain from these the Dominical letter for the year, and in the ominical letter Tables, under that letter, the required day of ne week will be found.

EXAMPLE.—On what day of the week did April 5, the day of he vernal equinox and also of the new moon, fall, in B.C. 1622? n the Tables of Equinoxes and New Moons the Dominical letter or B.C. 1622 is G. Under the letter G in the Dominical Letter lables April 5 is Thursday.

The Dominical letters can be employed as a test of the correctness of the tables, care being taken when B.C. and A.D. dates are compared to subtract one year.

Example: 2,300 years end one day of the week lower than the day on which they begin.

```
Thursday.
                                                         Ap.
                                                                5.
                         Dom. letter G.
                                           Vernal Eq.
_{2,300 \text{ years}} _{\text{A.D.}}^{\text{B.C. } 1622.}
                                                                    Friday.
                                                         Mar. 18.
                                                                    Tuesday.
                                                                8.
                                                          Αp.
            Св.с. 1443.
                                                         Mar. 16.
                                                                    Wednesday.
            la.d. 858.
                            ٠,
                                                                    Tuesday.
                                                          Aρ.
                                       F.
             ( B.c. 1336.
                                                                    Wednesday.
                                                          Mar. 15.
                                       A.
      ::
             la.d. 965.
                                                                    Thursday.
                                                          Ap.
                                                                1.
                                       C.
             (в.с. 1143.
                                                                    Friday.
                                                          Mar. 14.
                                       E.
      71
             λ.d. 1158.
                                                                    Wednesday.
                                                          Mar. 29.
                                       A.
             (B.C. 772.
                                                         Mar. 11. Thursday.
                                       C.
             (A.D. 1529.
                                                                    Tuesday.
                                                          Mar. 26.
                                       G.F.
             (B.C. 457.
                                                          Mar. 8.
                                                                    Wednesday.
                                       B.A.
      "
             (A.D. 1844.
                                                    27
                                                                     Tuesday.
                                                          Mar. 26.
                                       F.
             (вс. 367.
                                                    27
                                                          Mar. 8. Wednesday.
             l a.d. 1934.
```

## VERIFICATION OF THE TABLES.

In the following Table, the 33 years Equinox cycle is employed to verify the vernal Equinoxes in this volume in a series of dates beginning B.C. 1622, and extending to A.D. 1910.

## EXPLANATION OF THE CYCLE.

The Julian year of 365½ days exceeds the Tropical year by 11 minutes 12 seconds. This fractional excess grows to 6 hours 9 minutes in 33 years. Instead of intercalating in the Calendar 1 day every 4 years, and 8 days in 32 years, it is more correct therefore to shift the 8th intercalation from the 32nd to the 33rd year. This is to drop the six hours' error of the Julian reckoning in that period. The error of the 33 years Equinox cycle is less than 9 minutes.

The regularity of the nearly 9 minutes differences in the Equinoxes (at intervals of 33 years) is conspicuous throughout the following Table. The number of days elapsed from the initial date of the Table is stated, as the accuracy of the Equinox cycle seems to warrant it, and the statement may prove serviceable in chronological calculations.

xlv The 33 Years Equinox Cycle.

No. B.C.	Month.	d. h. m.	Days.	No.	A.D.	Month.	d. h. m.	Days.
	March  """  """  """  """  """  """  """	5 5 32 4 5 28 4 5 14 4 4 5 6 3 4 48 3 4 40 3 4 4 13 2 4 3 56 2 3 47 1 3 30 1 3 21 1 3 30 1 3 21 1 3 30 2 4 6 31 2 25 31 2 26 30 2 21 31 2 29 30 2 21 31 2 29 30 2 21 30 2 20 30 2 11 31 2 29 30 2 20 30 2 11 30 2 29 1 29 1 28 29 1 28 29 1 28 29 1 28 29 1 28 29 2 20 2	458,014 470,065 482,120 494,173 506,226 518,273 8 530,883 9 542,383 1 554,483 2 566,49 3 578,54	77 78 79 80 81 81 82 84 85 85 86 86 87 87 89 99 99 99 99 99 99 99 99 99 99 99 99	986 1019 1052 1085 1118 1184 1184 1185 1288 1288 1288 1316 1418 1418 1448 1448 1448 161 167 167 167 178 188 177 188 177 188 188 188 188 18	n n n n n n n n n n n n n n n n n n n	22 22 16 22 22 7 22 21 59 21 21 41 21 21 32 21 21 24 20 21 15 20 20 49 19 20 40 19 20 31 19 20 28 19 20 40 19 20 31 19 20 28 19 20 31 19 21 10 18 48 11 17 19 13 17 19 13 16 53 13 16 44 12 16 32 12 16 10 11 15 52 11 15 48 11 15 34 11 15 34 10 15 50 9 14 52 9 14 34 9 14 25 8 14 7 8 18 59	1,217,858 1,229,406 1,241,459 1,258,512 1,265,568 1,277,618

## USE OF THE TABLES.

1. The primary use of the Tables is to fix particular dates. Example:—What was the date of the new moon nearest to the vernal equinox in B.C. 457, the year in which, according to Sir Isaac Newton's calculation, Ezra went up from Babylon to Jerusalem? The Tables show that the vernal equinox in B.C. 457 fell on March 26, and that the nearest new moon was that of March 25 d. 8 h. 45 m, Jerusalem Civil Time; and that, therefore, the Phasis, or first appearance of the new moon coincided with the date of the equinox.

As the Tables contain more than 100,000 solar and lunar dates, they afford the means of ascertaining or verifying a very large number of periods connected with sacred and civil chronology.

The solar and lunar dates in the Tables are the following:—3,555 vernal equinoxes; 43,969 mean new moons; 43,969 true new moons (together 87,938 new moons); 4,862 mean full moons; 4,862 true full moons (together 9,724 full moons); or 101,217 solar and lunar dates.

In ascertaining or verifying historic dates, eclipses have a special value. The Tables contain the dates of all lunar eclipses from April 22, B.C. 1207, to July 26, A.D. 1934. No separate statement of solar eclipses is given, but as these always exactly coincide with true new moons, their dates, when otherwise ascertained, may be confirmed by the Tables. The new and full moons of the Tables being stated in Jerusalem Civil Time, allowance must be made for this in comparing them with eclipses stated in Greenwich, or other

<sup>&</sup>lt;sup>1</sup> An. J. P. 4,257. "Observations on the Prophecies of Daniel," p. 143.

local time, or in time as reckoned from noon. The following are some of the principal centres at which eclipses have been accurately observed, with the corrections which must be applied to the Tables in comparing other local time with that of Jerusalem.

				L	ong.		Diff. of from Jeruh.	
London-Gre	enw	ich		0°	0′		-2	21
Paris				$2^{\circ}$	24'	E	-2	12
Rome				$12^{\circ}$	30′	$\mathbf{E}$	-1	31
Athens	,			23°	44'	E	-0	46
Constantinop	le	•		29°	0'	E	0	25
Alexandria .				29°	52'	$\mathbf{E}$	-0	22
Babylon .				44°	<b>3</b> 3′	$\mathbf{E}$	+0	37
Canton .				113°	20′	$\mathbf{E}$	+5	12
Pekin .				116°	20'	$\mathbf{E}$	+5	24

The following nineteen lunar eclipses recorded by Ptolemy establish the chronology of Babylonian, Persian, Grecian and Roman rulers for nine centuries. The names and periods of kings in Ptolemy's Canon extend from Nabonassar, B.C. 747, to Antoninus, A.D. 138. "The astronomic and the historic cannot be separated, and they must both stand or fall together. The astronomic can be rigidly verified, and the truth of the historic is a legitimate deduction."

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## LUNAR ECLIPSES RECORDED BY PTOLEMY.

The second secon		В.С.	Year of Nabo- nassar.	Reign.	Egyptian Month.	Hour,	Date of Eclipse by Oppedzer.	Date in Tables.	Differences.
720         28         3         1100ul 29         1100ul 29         111         1100ul 29         114         115         114	-	1 6	5	, 	00 11-	toon thousand	d. h.	<i>d</i> .	h. m. + 0 45
720         28         "         Phamenth 15         8.30         "         Sept. 1         19         25         Sept. 1         18         12           621         127         Nabopolassar, 5         Athyr 27         17.50         "         April 22         4         59         April 22         4         59         April 22         6         47           523         Cambysis, 7         Phamenoth 17         11         "         July 16         28         21         July 17         1         20           562         246         Darii, 20         Epiphi 28         11.86         "         Nov. 19         28         47         1         20         1         47           582         266         Phamostratus         Thoth 16         11.00         "         Dec. 12         22         16         April 25         20         16         April 25         21         14         7         14         7         14         7         14         10         14         7         14         14         11         10         14         17         14         14         14         14         14         14         14         14         14         14	Tr.		% &	Maraocempaai, 1	1 notin 23	2.co 11 cm 11 cm	83	6	+ 1 23
621         127         Nabopolassar, 5         Athyr 27         17.50         , and septions are septions.         44 April 22         4 April 22         4 April 23         4 April 24         4 April 25         5 April 25         6 April 25         6 April 25         6 April 25         6 April 25         7 April	III		8	: ::	Phamenoth 15	8.30	1 19	-	-1 13
528         225         Cambysis, 7         Phamenoth 17         11         " July 16         28         21         July 17         1         20           502         246         Darii, 20         Epiphi 28         11.36         " Nov. 19         23         45         Nov. 20         1         47           383         366         Phanostratus         Thoth 24         19.20         " Dec. 28         7         Dec. 28         7         Dec. 28         1         47           382         366         Phanostratus         Thoth 16         11.0         " June 18         20         Dec. 28         7         Dec. 28         7         Dec. 28         7         Dec. 28         7         1         47           201         547         Calippic Per. II., 54         Mesore 16         7.0         " Sept. 22         19         28         Dec. 12         20         10           200         548         " II., 55         Mecheir 9         18320         " Mar. 20         1         28         April 22         29         10         9         1         1         2         1         2         1         1         2         1         2         3         1         2	IV.	_	127	70	Athyr 27	17.50 " "	22 4	55 6	+ 1 48
502         246         Darii, 20         Epiphi 28         11.86         " Nov. 19         23         45         Nov. 20         1 47           491         257         " 31         Tybi 3         11.80         " April 25         22         16         April 25         21         47           383         366         Phanostratus         Thoth 26         19.20         " June 18         22         16         Dec. 28         7         26         Dec. 28         27         14         7         14         7         14         7         14         14         14         14         14         14         14         14         14         14         14         14         14         15         14         15         14         15         14         15         14         15         14         14         15         14         15         14         15         14         15         14         15         14         15         14         15         14         15         14         14         15         14         15         14         15         14         14         15         14         15         14         15         14         16	Α.		225	Cambysis, 7	Phamenoth 17	11 ,, ,,	16 23 5	17 1	+ 1 59
491         257         " 31         Tybi 3         11.30         " April 25         22         16         April 25         21         47           383         366         Phanostratus         Thoth 26         19.20         " June 18         22         16         Dec. 28         6         22           382         367         Evander         Thoth 16         11.0         " June 18         20         15         10 <td>VI.</td> <td>505</td> <td>246</td> <td>Darii, 20</td> <td>Epiphi 28</td> <td>11.36 " "</td> <td>19 23</td> <td>20 1</td> <td>+ 2 4</td>	VI.	505	246	Darii, 20	Epiphi 28	11.36 " "	19 23	20 1	+ 2 4
383         366         Phanostratus         Thoth 26         19.20         n         Dec. 28         7         26         Dec. 28         6         22           382         366         n         n         Dec. 12         22         55         June 18         22         31           382         367         Evander         Thoth 16         11.0         n         Dec. 12         22         25         June 18         23         31           200         548         n         II.55         Mecheir 9         13.20         n         Sept. 22         19         28         Sept. 22         20         40           200         548         n         II.56         Mecheir 9         18.20         n         Nar. 20         12         29         28         Sept. 22         20         40           174         574         Philometor, 7         Phamenoth 27         14.15         n         May 1         2         5         May 1         0         9         3         1         2         4         4         1         0         1         1         0         1         0         1         0         0         1         0         1	VII.	491	257	31	Tybi 3	11.30 " "	25 22	25 21	-0 29
382         366         "         Phamenoth 24         9.6         "         June 18         20         52         June 18         22         31           201         547         Calippic Per. II., 54         Mesore 16         7.0         "         Sept. 22         25         Dec. 12         20         51           200         548         "         II., 55         Mesore 5         14.15         "         Sept. 22         19         28         Sept. 22         20         40           174         574         Philometor, 7         Phamenoth 27         14.15         "         Sept. 12         2         49         Sept. 12         2         50         9           1.7         Follometor, 7         Phamenoth 27         14.20         "         May         1         2         4         Sept. 12         2         4         Sept. 12         2         5         Jan. 27         2         2         Jan. 27         2         2         3         1         3         4         4         April 5         3         4         4         April 5         3         4         4         April 5         3         4         4         4         4         4	VIII.	383	996	Phanostratus	Thoth 26	19.20 " "	23 7	23 6	- 1 4
882         367         Evander         Thoth 16         11.0         n         Dec. 12         22         25         Dec. 12         20         51           201         547         Calippic Per. II., 54         Mesore 16         7.0         n         Sept. 22         19         28         Sept. 22         20         40           200         548         n         II., 55         Mesore 5         14.15         n         Sept. 12         2         49         Sept. 22         20         40           174         574         Philometory, 7         Phamenoth 27         14.20         n         May         1         2         49         Sept. 12         2         20         9           La         677         Philometory, 7         Phamenoth 27         14.20         n         May         1         2         5         May         1         0         31           La         677         Phamenoth 27         14.20         n         May         1         2         5         May         1         0         31           125         872         Hadrian, 9         Pachon 17         824         n         April         5         2         2	X.	382	998	•	Phamenoth 24	9.6	18 20	18 22	Н
201         547         Calippic Per. II., 54         Mesore 16         7.0         , , , , , , , , , , , , , , , , , , ,	×	385		Evander		11.0 " "	12 22	12 20 21	-184
200         548         " II., 55         Mecheir 9         18.20         " Sept. 12         2         49         Sept. 12         2         49         Sept. 12         2         55           174         574         Philometor, 7         Phamenoth 27         14.15         " May         1         2         49         Sept. 12         2         25	XI.	201		Calippic Per. II., 54		7.0 " "	22 19	55 50	-
200         548         "         II., 55         Mesorē 5         14.15         "         Sept. 12         2         49         Sept. 12         2           174         574         Philometor, 7         Phamenoth 27         14.20         "         May         1         2         5         May         1         0           141         607         Calippic Per, III., 37         Tybi 2         10.10         "         Jan. 27         22         22         Jan. 27         22         22         Jan. 27         20           125         872         Hadrian, 9         Pachon 17         8.24         "         April 5         21         18         April 5         20         18           188         880         "         17         Paüni 20         11.15         "         May 6         23         28         May 7         0           184         882         "         19         Chœac 2         11.0         "         Oct. 20         23         22         0ct. 20         23           185         883         "         19         Chœac 2         11.0         "         Oct. 20         23         20         23           186	XII.	500		" " II., 55		13.20 " "	20 1 28	20	0
174         574         Philometor, 7         Phamenoth 27         14.20         "May         1         2         5         May         1         0           141         607         Calippic Per, III., 37         Tybi 2         10.10         "Jan.         27         22         22         Jan.         27         20           4.0         4         872         Hadrian, 9         Pachon 17         8.24         "April 5         21         18         April 5         20         18           188         880         "17         Pauni 20         11.15         "Asy 6         23         28         May 7         0           134         882         "19         Chœac 2         11.0         Ct.         20         23         20         0ct.         20         23           186         883         "20         Pharmuthi 19         160         "Mar.         6         4         4         Mar.         6         23	XIII.	200		" " II., 55		14.15 , ,	12 2 49	12 2	$\frac{1}{1} - 0$ 24
441         607         Calippic Per, III., 37         Tybi 2         10.10          Jan. 27         22         22         Jan. 27         22         22         Jan. 27         20         23         20         0ct. 20         23         20         20         23         23           136         683         ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	XIV.	174	-	Philometor, 7		14.90 , ,	1 2 5	1 0	-1 34
125 872 Hadrian, 9 Pachon 17 8.24 April 5 21 18 April 5 188 890 n 17 Paŭni 29 11.15 May 6 23 28 May 7 Chœac 2 11.9 Oct. 29 23 22 Oct. 29 136 883 n 29 Pharmuthi 19 16.9 Mar. 6 4 4 Mar. 6	XV.	141	209	Calippic Per. III., 37	Tybi 2	10.10	27 22	27 20	-1 32
125         872         Hadrian, 9         Pachon 17         8.24          April 5         21         18         April 5           188         880         n         17         Pauni 20         11.15          May 6         23         28         May 7           134         882         n         19         Chœac 2         11.0          Oct. 20         23         22         Oct. 20           136         863         n         20         Pharmuthi 19         16.0          Mar. 6         4         4         Mar. 6		₽.D.	990400			ner Lingharde			alani sama da
188 880 , 17 Pauni 20 11.15 May 6 23 28 May 7 184 882 , 19 Chesa 2 11.0 Oct. 20 23 22 Oct. 20 136 883 , 20 Pharmuthi 19 16.0 Mar. 6 4 4 Mar. 6	XVI.	125	872	Hadrian, 9	Pachon 17	8.24	5 21	10	- 0 53
134 862 , 19 Chœac 2 11.0 . Oct. 20 23 22 Oct. 20 136 863 , 20 Pharmuthi 19 16.0 . Mar. 6 4 Mar. 6	XVII.	33	8	" 17	Patini 20	11.15	9	May 7 0 6	58 O +
136 883 , 29 Pharmuthi 19 16.0 , Mar. 6 4 4	XVIII.	134	883	. 19	Cheese 2	0.11	56 53	ह्य	+ 0 25
	XIX.		<b>3</b> 3	ଛ .	Pharmuthi 19	16.0	Mar. 6 4 4	Mar. 6 9 35	*

## ANCIENT CHINESE ECLIPSES.

The following thirty-six solar eclipses have a special value as verifying ancient Chinese history. They are taken from the Chun Tsiu, a history or chronicle of the kingdom of Lu, from B.C. 722 to B.C. 481, written by the celebrated philosopher Confucius. With the exception of four, all these eclipses have been verified. "That some error exists in these four is admitted by the Chinese themselves, but they attribute it to the transcribers, and not to Confucius. As the hour and quantity are not expressed they are less useful to the astronomer, but they are of immense value in authenticating the ancient Chinese history and determining its chronology." We have taken the dates of these eclipses from Lindsay's "Chrono-Astrolabe." The correspondence of these dates with new moons in the Tables is interesting, and confirms both the eclipses and the Tables.

<sup>1</sup> J. B. Lindsay. "Chrono-Astrolabe," p. 98.

# ANCIENT CHINESE ECLIPSES, FROM THE CHUN TSIU, OF CONFUCIUS.

No.		Date B.C.	Date indicated. B.C.	New Moon. Tables. Jerusalem Civil Time.	on. 1	Tim	. e .
1	"In the year Sin-Yiu (the 58th of the cycle of 60) the 3rd of the Prince Yin Kung, in the season of spring, the 2nd moon, the day Ki-szi (being the 6th of the cycle of 60 days) the snn was eclipsed."	720.	720. Feb. 22	d. h Feb 22 1	~: X	h. m. 1 43	58
62	"In the year of the cycle Jin-Shin (the 9th) being the 3rd year of the Prince Hwan Kung, in autumn, the 7th moon, the day Jin-chin (29th) at new moon, the sun suffered a total eclipse."	709.	709. July 17	July . 17	- 1	8	55
GG	"In the 17th year of Hwan Kung being ping-seuh (23rd of cycle) winter, the 10th moon, at new moon, the sun had an eddirse."	695.	695. Oct. 10	Oct. , 10 10 35	9	0	8
4	"In the year Yih-szi (42nd of the cycle) being the 18th of Chwang Kung, spring 676. April 15 April. 15 10 season, 3rd moon, the sun was eclipsed."	676.	April 15	April. 1	15 1	0	5
ಹ	year of Chwang Kung, beginning of the cycle of days) the sun had an	699	669. May 27	May . 27	27	သ	t~
9	"In the year Kwei-chau (50th of cycle), the 26th of Chwang Kung, winter, 12th moon, the day Kwei-hai (60th of cycle of days), the sun was eclipsed."	<b>E</b>	6% Nov. 10	Nov 10 6 11	9	æ	2700d 2000d
	"In the 90th year of Chwang Kung, being Ting-szi (54th year of the cycle), on the first of the 9th moon, being the day Kang-wu (7th of the cycle of days), the sun was elipsed."	75	V.A. Aug. 25	4	5	£	•
8	8 . * In the year Ping-yin 3rd of the cyclet, being the 5th of Hi Kung, the first of the 9th moon, the day Wushin thin of the cycle of days. the size was so well	:3	T &		25	ŧ .	2

,		Date indicated. B.C.	New Moon. Tables. Jerusalem Civil Time.	n. Te	<i>ibles.</i> Fime	
"In the year Kwei-yiu (10th of the cycle), being the 12th of Hi Kung, in the spring season, 3rd moon, on the day Kang-wu (7th of the cycle of days), the sun was eclipsed."	ng the 12th of Hi Kung, in the spring th of the cycle of days), the sun was	648. April 6	April. 6	d. h	h. m. 9 39	1
"In the year Ping-tszi (13th of the cycle), being the 15th of Hi Kung, in summer, the 5th moon, the sun was eclipsed." (Cannot be verified.)	ing the 15th of Hi Kung, in summer, unnot be verified.)	645.				1
"In the year Yih-wi (82nd of the cycle), being the first of Wan Kung, in the 2nd moon, the day Kwei-hai (60th of the cycle of days), the sun was ecripsed."	g the first of Wan Kung, in the 2nd e of days), the sun was ecripsed."	626. Feb. 3	Feb	8	8 10	1_
"In the year Ki-yiu (46th of the cycle), the 15th of Wan Kung, on the first day of the 6th moon, being sin-chau (88th of the cycle of days), the sun was eclipsed."	5th of Wan Kung, on the first day of cycle of days), the sun was eclipsed."	612. April 28	April. 28	0	53	
"In the year Kang-shin (57th of the cycle), the 8th of Seuen Kung, autunn, 7th moon, the day Kia-tszi (1st of the cycle), the sun suffered a total ecli <sub>1.52</sub> ."	the 8th of Seuen Kung, autumn, 7th che sun suffered a total echi.s."	601. Sept. 20	Sept 20	8	22	
"In the year Jin-Seuh (59th of the cycle), the 10th of Seuen Kung, summer, at the 4th moon, the day Ping-chin (53rd of the cycle), the sun was eclipsed."	o 10th of Seuen Kung, summer, at the cycle), the sun was eclipsed."	599. Mar. 6	Mar. 6	ł	3 17	
"In the year Ki-szi (6th of the cycle), the 17th of Seuen Kung, at the 6th moon, the day Kwei-mao (40th of the cycle of days), the sun eclipsed." (Not verified.	th of Seuen Kung, at the 6th moon, ays), the sun eclipsed." (Not verified.)	592.				
"In the year Pingseuh (22rd of the cycle), the 16th of Ching Kung, at the beginning of the 6th moon, on the day Ping-yin (3rd of the cycle of days), the sun was eclipsed."	16th of Ching Kung, at the beginning and of the cycle of days), the sun was	575. May 9	May . 9	2	43	
"In the year Ting-hai (24th of the cycle), the 17th of Ching Kung, the first day of the 12th moon, being Ting-szi (54th of the cycle), the sun was eclipsed."	17th of Ching Kung, the first day of eycle), the sun was eclipsed."	574. Oct. 22	Oct 22	23	35	
"In the year Jin-yin (89th of the cycle), the 14th of Siang Kung, the 1st day of the 2nd moon, being Yih-wi (the 32nd of the cycle of days), the sun was eclipsed."	14th of Siang Kung, the 1st day of the cycle of days), the sun was eclipsed."	559. Jan. 14	Jan 14	6	14	
						_

# ANCIENT CHINESE ECLIPSES, FROM THE CHUN TSIU, OF CONFUCIUS.

			E of or it	Now Moon.	Tabl	 83
Š.		B.C.	B.C.	Jerusalem Civil Time.	vil Ti	me.
				d.	h.	m.
	"In the year Sin-Yiu (the 58th of the cycle of 60) the 3rd of the Prince Yin Kung, in the season of spring, the 2nd moon, the day Ki-szi (being the 6th of the cycle in the season of spring, alternative of the cycle of the cycl	720. Feb. 22		Feb 22	-	
62	of 60 days) the sun was confesor.  "In the year of the cycle Jin-Shin (the 9th) being the 3rd year of the Prince Hwan "In the year of the cycle Jin-Shin (the 9th) being the Sun moon, the sun	709.	709. July 17	July . 17	00	55
	Kung, in autumn, the 'tu mou,' the usy our care,' suffered a total eclipse."			100	Ş	100
60	"In the 17th year of Hwan Kung being ping-seuh (23rd of cycle) winter, the 10th moon, at new moon, the sun had an echipse."	695.	Oct. 10	Oct. 10 10	3	3
4	"In the year Yih-szi (42nd of the cycle) being the 18th of Chwang Kung, spring season. 3rd moon, the sun was eclipsed."	676. 4	676. April 15	April. 15	10	6
ro	"In the year Jin-tszi (49th of the cycle) 25th year of Chwang Kung, beginning of the 6th moon, on the day Sin-wi (8th of the cycle of days) the sun had an orline."	669.	669. May 27	May . 27	8	~
9	Kwei-chau (50th of cycle), the 26th of Chwang Kung, winter, 12th e day Kwei-hai (60th of cycle of days), the sun was eclipsed.	3.50	638, Nov. 10	Nov. , 10	9	=
Character of	"In the 30th year of Chwang Kung, being Ting-szi (54th year of the cycle), on the first of the 9th moon, being the day Kang-wu (7th of the cycle of days), the sun was elipsed."		W. Aug. 28	Aug. 25	۵	12
<b>CO</b>	* In the year Ping-yin (3rd of the cycle), being the 5th of Hi Kung, the first of the 9th moon, the day Wushin (45th of the cycle of days, the sun was en passed.	3	SS Aug. IU	Au5 19	i	3
- Contract of the Contract of	And in the property of the control o					

		Date B.C.	Date indicated. B.C.	New Moon. Tables. Jerusalem Civil Time.	n. 1 Civil	ables Tin	i
"In the year Kwei-yiu (10t season, 3rd moon, on the echipsed."	"In the year Kwei-yiu (10th of the cycle), being the 12th of Hi Kung, in the spring season, Sid moon, on the day Kang-wu (7th of the cycle of days), the sun was eclipsed."	648.	April 6	April, 6 9	9	2.0	m. 339
"In the year Ping-tszi (18th the 5th moon, the sun w	"In the year Ping-tszi (13th of the cycle), being the 15th of Hi Kung, in summer, the 5th moon, the sun was eclipsed." (Cannot be verified.)	645.					
"In the year Yih-wi (32nd o moon, the day Kwei-hai	"In the year Yih-wi (32nd of the cycle), being the first of Wan Kung, in the 2nd moon, the day Kwei-hai (60th of the cycle of days), the sun was eclipsed."	626.	Feb. 3	Feb.	co	8	10
"In the year Ki-yiu (46th of the 6th moon, being sin-c	"In the year Ki-yiu (46th of the cycle), the 15th of Wan Kung, on the first day of the 6th moon, being sin-chau (38th of the cycle of days), the sun was eclipsed."	612.	April 28	April. 28		0	53
"In the year Kang-shin (57th moon, the day Kia-tszi (1s	"In the year Kang-shin (57th of the cycle), the 8th of Seuen Kung, autumn, 7th moon, the day Kia-tszi (1st of the cycle), the sun suffered a total eclips:"	601.	Sept. 20	Sept 20		8	55
"In the year Jin-Seuh (59th o 4th moon, the day Ping-ch	"In the year Jin-Seuh (59th of the cycle), the 10th of Seuen Kung, summer, at the 4th moon, the day Ping-chin (53rd of the cycle), the sun was eclipsed."	599.	Mar, 6	Mar (	9	83	17
"In the year Ki-szi (6th of the day Kwei-mao (40th of	"In the year Ki-szi (6th of the cycle), the 17th of Seuen Kung, at the 6th moon, the day Kwei-mao (40th of the cycle of days), the sun eclipsed." (Not verified.)	592.					
"In the year Pingseuh (23rd of the 6th moon, on the eclipsed."	"In the year Pingseuh (23rd of the cycle), the 16th of Ching Kung, at the beginning of the 6th moon, on the day Ping-yin (3rd of the cycle of days), the sun was eclipsed."	575.	May 9	May . §	6	7 4	43
"In the year Ting-hai (24th c the 12th moon, being Tin	"In the year Ting-hai (24th of the cycle), the 17th of Ching Kung, the first day of the 12th moon, being Ting-szi (54th of the cycle), the sun was eclipsed."	574.	Oct. 22	Oct. , 22		2 3	35
"In the year Jin-yin (39th of 2nd moon, being Yih-wi (	"In the year Jin-yin (39th of the cycle), the 14th of Siang Kung, the 1st day of the 2nd moon, being Yih-wi (the 82nd of the cycle of days), the sun was eclipsed."	559.	559. Jan. 14	Jan 14		9 14	4
							i

;		Date indicated. B.C.	i	New Moon, Tables. Jerusalem Civil Time.	n. T	Time	
, 0,4				700	~ 6	h. m.	<b>~</b> 11
110	"In the year Kwei-mau (40th of the cycle), being the 15th of Siang Kung, autumn, the Sth moon, ou the day Ting-szi (54th of the cycle of days), there was an	558. Ma	May 81	May . 80 %	ži 2	~ I	0
8	eclipse of the sun."  "In the year Wu-shin (45th of the cycle), being the 20th of Siang Kung, in winter, the Let day of the 10th moon, being Ping-chin (the 58rd of the cycle of days),	558. Au	Aug. 31	Aug 31	31 11	-	က
21	the sun was coll psed."  the sun was coll psed."  "In the year Ki-yiu (46th of the cycle), the 21st of Siang Kung, the 1st day of the	552. Au	Aug. 20	Aug 20 11	20 1	1	23
22	9th moon, being Kang-Seun (4fun of mac) and of the control of the day of 10th "In the year Ki-yiu (46th of the control of the cun of the gran Ki-yiu (46th of the control of the cun of the						
23	moon, being Kang-chin (100 or cycle), and the 23rd of Siang Kung, in the spring "In the year Sin-hai (48th of the cycle), being the 23rd of Siang Kung, in the spring "In the year Sin-hai (48th of the cycle), the cycle of days), the sun was echipsed."	550. Јал	Jan. 5	Jan.	īC	20	20
24	"In the 24th year of Siang Kung, being Jin-tszi (49th of the cycle), autumn, beginning of the 7th moon, on the day Kia-tszi (1st of the cycle of days), the	549. Ju	June 19	June . 19	19	9	13
25	un had a total echipse "In the beginning of the 8th moon, on the day Kwei-szi (80th of the cycle of days), "In the beginning of the 8th moon, on the day Kwei-szi (80th of the cycle of days),	549. July 18	ıly 18	July . 18		13	20
56	"In the 27th year of Siang Kung, being Yih-mao (52nd of the cycle), winter, beginning of the 12th moon, the day Yih-hai (12th of the cycle of days), the man was solinsed."	546.	Oct. 13	Oct 13	13	<b>2</b> 1	13
27	"In the 7th year of Chao-Kung, being Ping-yin (3rd of the cycle), summer, beginning of the 4th moon, on the day Kia-chin, the sun was eclipsed."	535.	Mar. 18	Mar 18	118	2	7 15

No.		Date B.C.	Date indicated. B.C.	New Moon. Tables. Jerusalem Civil Time.	Civil	tbles. Time	
28	"In the 15th year of Chao Kung, being Kia-seuh (11th of the cycle), beginning of the 6th moon, on the day Ting-szi (54th of the cycle), the sun was eclipsed."	527.	527. April 18	d. April. 18	3.	23	പ് ന
59	"In the 17th year of Chao Kung, being Ping-tszi (13th of the cycle), summer, beginning of the 6th moon, the day Kia-seuh (11th of the cycle of days), the sun was eclipsed."	525.	525. Aug. 21	Aug 21	13	96	ر دو ا
30	"In the 21st year of Chao Kung, being Kang-chin (17th of the cycle), autumn, beginning of the 7th moon, on the day Jin-wu (19th of the cycle of days), the sun was eclipsed."	521.	521. June 10	June . 10		5 18	<u> </u>
31	"In the 22nd year of Chao Kung, being Sin-szi (18th of the cycle), beginning of the 12th moon, the day Kwei-yiu (10th of the cycle of days), the sun was eclipsed."	520.	520. Nov. 23	Nov 23	20		00
32	"In the 24th year of Chao Kung, being Kwei-wi (20th of the cycle), summer, beginning of the 5th moon, the day Yih-wi (32nd of the cycle of days), the sun was eclipsed."	518.	April 9	April. 9	4	121	1
889	"In the 31st year of Chao Kung, being Kang-yin (27th of the cycle), beginning of the 12th moon, the day Sin-hai (48th of the cycle), the sun was celipsed."	511.	Nov. 14	Nov., 14	4		4
97	" In the 5th year of Ting Kung, being Ping-shin (33rd of the cycle), spring season, beginning of the 3rd moon, the day Sin-hai (48th of the cycle), the sun was eclipsed."	505.	Feb. 16	Feb. , 16	6	15	,0 '
35	"In the 12th year of Ting Kung, being Kwei-mao (40th of the cycle), beginning of the 11th moon, the day Ping-yin (3rd of the cycle of days), the sun was eclipsed."	498.	S.pt. 22	Sept 22		9 17	<u>~  </u>
98	"In the 15th year of Ting Kung, being Ping-wu (48rd of the cycle), beginning of the 8th moon, the day Kang-chin (17th of the cycle), the sun was eclipsed."	495.	495. July 22	July . 22	70		9

Coming down to later times, we add the following twelve historically recorded lunar eclipses, as specimens of the very large number of historical eclipses verified by the Tables.

## LUNAR ECLIPSES.

B.C.	Day. Hour.	Locality. Authority.	Tables. Jerusalem Civil Time.
			d. h.
45	Nov. 7. Two hours after midnight.	Rome. Ovid, "Met."	Nov. 7 2
4	Mar. 13. Night of 12th to 13th March.	Judea. Josephus, "Antiq.," xvii. 6, 4.	Mar. 13 3
A.D.			
14	Sept. 27. Four in the morning.	Tacitus, "Annals." Soon after death of Augustus.	Sept. 27 5
364	Nov. 26.	Theon, "Commentary on Almagest of Ptolemy."	Nov. 26 3
452	Sept. 15.	8th year of Merovius. King of Franks. Trithemius.	Sept. 15 4
716	Jan. 13. "Till mid- night."	In time of Pope Gregory. "14th Indiction." Anastasius.	Jan. 13 20
800	Jan. 15. Eight in the evening.	Saxon Chronicle.	Jan. 15 22
883	July 23.	Observed by Albatani.	July 23 18
1204		Matthew Paris.	April 16 3
1248	*	, ,	June 7 23
1457	Sept. 3. 11.17 p.m. (Struyk).	Observed by Regiomontanus.	Sept. 3 28
1460	, , ,	" "	July 3 22

The Tables are of practical value, not only in confirming dates, but in the discovery of errors. The following errors is the list of eclipses given in Ferguson's "Astronomy" (takes professedly from Struyk and Ricciolus) have been discovere by a comparison of his dates with those in the Tables. I each of these instances the dates in the Tables are confirme by Oppolzer's invaluable "Canon der Finsternisse."

## ERRATA IN FERGUSON'S LIST OF ECLIPSES.

From Struyk's Catalogue to a.d. 1485; rest from Ricciolus.

Reduced to Civil Time.

в.с.	Character of Eclipse.	Date-	–Fer	guso	n.	Jerusale	Table m Ci	s. vil T	ime.
			d.	ħ.	m.		d.	h.	m.
403	Solar	Aug.	28	17	53	Aug.	23	18	8
357	Lunar	Aug.	29	19	29	Aug.	9	18	53
188	Solar	$\mathtt{July}$	7	8	38	July	17	9	5
<b>2</b>	n	Feb.	2	8	8	Feb.	5	<b>2</b>	59
а. D. 290		May	15	15	20	May	25	23	40
787	n	Sept.	15	8	43	Sept.		10	37
989	29	May		18	54	May.		1	50
1207	"	Feb.		22		Feb.	28		1
1228	n	Dec.		21	55	Dec.	28		15
1327	Lunar	Sept.		6		Sept.			23
1341	,L.(1112)L	Nov.	29		23	Nov.			16
1491	Solar	Mar.	8	14	19	May	8	<b>1</b> 5	21
1495	Lunar	Mar.	11	4			non	ae	
1499	n	June	23	5			no	ne	
1499	Solar	Aug.	24	6			no	ne	
1499	Lunar	Nov.	17	22			no	ne	
1500	Solar	Mar.	27			May	28	<b>2</b>	12

## ERRORS IN EQUINOX DATES AND DOMINICAL LETTERS.

Greswell's otherwise valuable Chronological Tables are wrong in their Julian Equinox dates and Dominical Letters from their commencement to the third century A.D. In the table which follows, it will be seen that while Greswell's dates agree on the whole with those in our Tables from the third century A.D. onward, they differ from them in all the preceding centuries. The error of Greswell's tables has been clearly demonstrated by Browne—Ordo Sæclorum, pp. 522–526—and by other chronologers.

ERROR OF GRESWELL'S CHRONOLOGICAL TABLES.
"FASTI CATHOLICI."

B.C.	Fasti C Julian Equino	n	Dom. Let.	Ta Verna Equin		Oom.	A.D.	Fasti ( Julia: Equin	n I	olici Dom. Let.	Verna Equin		om. Let.
1622 1522 1422 1322 1222 1122 1022 922 822 722 622 522 422 322 122 22	Apr.	7 6 5 4 3 3 2 1 31 30 28 27 26 25 24 23	E G B D F G B D F A C E F A C E G	Apr.  n n n n n n n n n n n n n n n n n n	5 4 3 2 2 1 31 30 29 28 27 26 25 24 23		79 179 279 379 479 579 679 779 879 979 1079 1179 1279 1479 1679 1779 1879	Mar.	23 22 21 20 20 19 18 17 16 15 14 13 13 12 11 10 9	A C E F G A B C D E F G A B C D E F G	Mar.	28 22 21 20 19 19 16 16 15 14 13 12 11 10 9	C D E F G A B C D E F G A B C D E F G

## 2. The second practical use of the Tables is in the ascertainment or verification of series of dates.

The Tables possess a special value as casting a clear, direct light on the recorded dates of ancient and modern calendars, Jewish, Grecian, Roman, Christian, Mohammedan, etc. In illustration of the use of the Tables in the study of this branch of Chronology, we present, in the first place, specimens of the two principal Greek Calendars—the Octaëteris, or 8-years Calendar, and the Calendar of the celebrated Metonic Cycle (19-years Calendar), with the corresponding dates in the Tables. The Delphian Octaëteris is that given by Greswell in "Origenes Kalendariæ Hellenicæ," vol. vi., p. 666.

DELPHIAN OCTAËTERIS.

GRESWELL, "ORIGENES KALENDARIÆ HELLENICÆ,"

Epoch, August 1, B.c. 542.

-	-	-   -						-										
Ένδυσποι- Ποιτρό- 'Αποτρό- 'Απελλαΐος. Δάιδαφό- τρόπιος. πιος. πιος.	Ένδυσποι- Ποιτρό- 'Αποτρό- 'Απε τρόπιος. πιος.	Ποιτρό- 'Αποτρό- 'Απε πιος. πιος.	'Αποτρό- 'Απε πιος.	'Απε	ελλαΐος.	Δάιδαφό- ριος.	Ήραΐος.		Βύσιος.	Воав	os. (	θευξένι	H, '50	ράκλειος.	Вочкатюя	Βοαθόσς. Θευξένιος. Ήράκλειος, Βουκάτιος. Είλαΐος. Είλαΐος Β.	Είλαΐο	S B.
Cycle. i. 30, ii. 29, iii. 30. iv	i. 30. ii. 29. iii. 30.	iii. 30.		yi	iv. 29.	v. 30.	vi. 29.	[	vii. 30.	viii. 29.	29.	ix. 30.		x. 29.	xi. 30.	xii. 29.	xiii.	30.
i. Aug. 1 Aug. 31 Sept. 29 Oct	Aug. 1 Aug. 31 Sept. 29	Aug. 31 Sept. 29	Sept. 29		Oct. 29	Nov. 27 Dec. 27 Jan. 25	Dec. 27	7 J	n. 25	Feb. 24	24	Mar. 24	7	Apr. 23	May 22	May 22 June 21		
ii. July 20 " 19 " 17 "	July 20 " 19 " 17	" 19 " 17	" 17		17	" 15	, 15		, 13	=	12		13	,, 12	, 11	,, 10	·	
*iii. " 9 " 8 " 6 "	9 " 8 " 6	8	9		9	" 4			22	2	Η.	=	C/1	" 1	Apr. 30	May 30 June 28	June	87
iv. " 28 " 27 " 25 "	" 28 " 27 " 25 "	" 27 " 25 "	,, 25	=	25	,, 23	,, 23		,, 21	*	50	×	- 17	, 20	May 19	May 19 June 18		
*v. " 17 " 16 " 14 "	17 ,, 16 ,, 14	" 16 " 14	" 14		14	,, 12	,, 12		, 10	2	6	=	6	8	., 7	, 6	July 5	က
vi. Aug. 4 Sept. 3 Oct. 2 Nov. 1	Aug. 4 Sept. 3 Oct. 2	Sept. 3 Oct. 2	Oct. 2		<del>-</del>	" 30	. 30			2	27		-82	,, 27	,, 26	., 25	<del></del>	
vii. July 24 Aug. 23 Sept. 21 Oct. 21	July 24 Aug. 23 Sept. 21				21	" 19	,, 19		" 17	2	16	:	17	, 16	,, 15	,, 14		
*viii. " 18 " 12 " 10 "	" 13 " 12 " 10	,, 12 ,, 10	10 "		10	8	2		9 "	2	ಸ್ತ	2	9	" 5	,, 4	es es		Ø
								-										

## DELPHIAN OCTAËTERIS.

## DATES FROM THE TABLES, JERUSALEM CIVIL TIME.

Epoch, July 31, B.c. 542.

<u>~ 1</u>	1			<del></del>					
Είλαΐος Β.	xiii. 30.			$\begin{array}{c} \mathrm{June} \\ 29 \ d. \ 6  l \end{array}$		$\begin{array}{c} \mathrm{July} \\ 6  d.  14  h \end{array}$			$\begin{array}{c} \rm July \\ \rm 9  \textit{d}. 12  \textit{l} \end{array}$
Είλαΐος.	xii. 29.	$J_{ m une}$ 20 $d.13h.$	$_{10d.6h.}^{\mathrm{June}}$	$\begin{array}{c} \text{May} \\ \text{80}  d.22 h. \end{array}$	$\begin{array}{c} \text{May} \\ 18d.19h. \end{array}$	May 7 $d$ . 0 $h$ .	$\begin{array}{c} \text{May} \\ 25d.17h. \end{array}$	$\begin{array}{c} \text{May} \\ 14d.18h. \end{array}$	$_{4d.0h.}^{\rm May}$
Βουκάτιος.	. xi. 30.	$\begin{array}{c} \text{May} \\ 22 \ d. \ 6 \ h. \end{array}$	May $11d.23h$ .	May 1 d. 12 h.	May 20 d. 7 h.	$\begin{array}{c} \text{May} \\ 8  d.  9  h. \end{array}$	$\begin{bmatrix} \text{May} \\ 27 \ d. \ 1 \ h. \end{bmatrix}$	May 16 d. 4 h.	$\left. egin{align*}{c} \operatorname{May} \\ 5 \ d. \ 15 \ h. \end{array} \right $
Ηράκλειος.	х. 29.	April 22 d.23 h.	April 12 d. 15 h.	April 1 d. 23 h.	$\left. \begin{array}{c} \text{April} \\ \text{20 d. 17 h.} \end{array} \right $	April 8 d. 18 h.	$\frac{\mathrm{April}}{27  d.10  h.}$	April 16 d. 17 h.	$\begin{array}{c} A \text{ pril} \\ 6 \ d. \ 6 \ h. \end{array}$
Βυσιος. Βοαθόος. Θευξένιος. Ήράκλειος. Βουκάτιος. Είλαϊος.	ix. 30.	Mar. 24 d. 16 h. 5	Mar. 14 d. 4 h.	Mar. 3 d. 8 h.	Mar. 22 d. 1 h.	Mar. 10 d. 2 h.	Mar. $28d.21h.$	$\begin{bmatrix} \text{Mar.} \\ 18  d.  7  h. \end{bmatrix}$	Mar. 7 d. 22 h.
Βοαθόος.	viii. 29.	Feb. 24 d. 6 h.	Feb. 12d.14h.	Feb. 1 d. 15 h.	Feb. 20 d. 8 h.	Feb. 9 d. 11 h.	Feb. 27 d. 8 h.	Feb. 16d.21h.	Feb. 6 d. 13 h.
Βύσιος.	vii. 30.	Jan. 25 <i>d</i> .17 <i>h</i> .	Jan. 13 <i>d</i> .21 <i>h</i> .	$\begin{bmatrix} \mathrm{Jan.} \\ 2d.20h. \end{bmatrix}$	$\begin{array}{c} \operatorname{Jan.} \\ 21d.15h. \end{array}$	Jan. 10d.21h.	Jan. 28 <i>d</i> .20 <i>h</i> .	Jan. 18d.11h.	Jan. 8 d. 3 h.
'Hpaîos.	vi. 29.	Dec. 27 d. 1 h.	Dec. 15 d. 2 h.	Dec. 4 d. 2 h.	Dec. $22d.22h.$	Dec. $12 d. 8 h.$	Dec. 30 d. 9 h.	Dec. 20 d. 1 h.	Dec. 9 d. 15 h.
Δάιδαφό- ριος.	v. 30.	Nov. 27 d. 7 h.	Nov. $15 d. 6 h.$	Nov. $4d.8h$ .	Nov. 23 d. 7 h.	Nov. $12d.20h.$	$_{30d,22h.}^{\mathrm{Nov.}}$	Nov. 20d.14h.	Nov. 10 d. 2 h.
Απελλαΐος.	iv. 29.	Oct. 28 d. 12 h.	Oct. 16 d. 12 h.		Oct. 24 d. 18 h.	Oct. 14 d. 9 h.	Nov. 1 d. 11 h.	Oct. 22 d. 2 h.	Oct. 11 d. 10 h.
$\Delta \pi \sigma \tau p \delta^{-}$ $\Delta \pi \epsilon \lambda \lambda \alpha \hat{c}os.$ $\Delta \hat{a} \hat{c} \delta \alpha \hat{b} \hat{c} \sigma \hat{c}$ .	iii. 30.	Sept. 28d.17h.	Sept. $16d.20h$ .	Sept. 6 d. 6 h.	Sept. 25 d. 7 h.	Sept. 14 d. 23 h.	Oct. 3 d. 1 h.	Sept. 22 d. 13 h.	Sept. 11 <i>d</i> .18 <i>h</i> .
Ποιτρό- πιος.	ii. 29.	July         Aug.         Sept.         Oct.         Nov.         Dec.         Jan.         Feb.         Mar.         April         May         June           31.4.10h.30 d. 0h. 28d.17h.28 d.12h.27 d. 7h.27 d. 1h.25 d.17h.24 d. 6h.24d.16h.22 d.23 h.22 d.23h.         22 d.23h.22 d.6h.20d.18h.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	July Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. April May May 284,14h,26d,22h,22h,22d,22h,22h,20d,2h,20d,2h,20d,17h,20d,7h,20d,7h,18d,19h.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Aug.         Sept.         Oct.         Nov.         Dec.         Jan.         Feb.         Mar.         April         May         May           5 d. 3h.         3 d. 14h.         8 d. 11h.         1 d. 11h.         30 d. 22h.         30 d. 9h.         28 d. 20h.         27 d. 8h.         28 d. 21h.         27 d. 10h.         27 d. 1h.         27 d. 1h.         27 d. 1h.         25 d. 17h.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Ένδυσποι-	1, 30.	$\begin{array}{c} \text{July} \\ \text{31}  d.10  h. \end{array}$	July 194.21 h.	$\begin{bmatrix} \text{July} \\ 9 \ d. \ 13 \ h. \end{bmatrix}$	July 28d.14h.	$\left. egin{array}{c} \mathrm{July} \\ 18  d.  5  h. \end{array} \right $	Aug. 5 d. 3 h.	$\begin{bmatrix} \text{July} \\ 25  d.  8  h. \end{bmatrix}$	July 14 d. 9 h.
	Cycle.	.4	::i	iii.	iv.	>	vi.	vii.	viii.
	B.0.	542	541	540	539	538	537	536	585

INTERCALARY MONTHS IN THE METONIC CYCLE,

From the first year of the cycle, commencing with the new moon nearest to the Summer Solstice, B.C. 432, to the adoption of the Cycle of Calippus, containing four Metonic periods, or 76 years, July, s.c. 330. Dates from Tables. Jerus. C. T.).

								_	
New Moon Intercalary	Month.	1	June 13	, 20					
	B.C.		334						
New Moon Intercalary	Month.	!	June 12	, 20	" 17	, 14	. 25	, 18	" 15
	B.C.		203	351	348	345	313	340	337
New Moon	Month.		June 12	, 21	" 17	, 13	, 22	, 19	" 15
	В. С.		372	370	367	364	365	359	356
New Moon	Month.		June 12	19	" IS	, 14	, 21	. 19	, 15
	B,C.		391	688	386	323	931	378	375
New Moon	Month.		June 12	, 20	, 17	. 14	255	3 19	n 16
	B.C.		410	408	405	402	00 <del>,</del>	3.7	894
Inter- New Moun N.	Month.	June 16	15	. 50	, 17	. 14	. 55	, 19	, 15
	B.C.	432	429	427	424	491	419	416	413
Inter-	Calary Years.		Ħ	Δ.	VIII.	XI.	XIII.	XVI.	XIX.

Many references occur in the writings of Josephus to dates connected with the history of the Jewish war. A list of these is given in Browne, "Ordo Sæclorum," p. 537-544, together with the following table of the Jewish and Syromacedonian months in the years A.D. 66-70. These dates are confirmed, and to some extent corrected, by those in our Tables.

JEWISH AND SYROMACEDONIAN MONTHS, A.D. 66-70. (Browns, Ordo Seclonum.)

Jewish and Syromacedonian M.	Days.	A.D. 66.	A.D. 67.	Days.	А.D. 68,	A.D. 69.	А.Б. 70.
-	1	S Mar. 16	Th Mar. 5	; ا	W Mar. 23	S Mar. 12	Sa Mar. 31 April 14
Xanthiens	32	M. April 14	F April 3	c 63	" Apru 6 " " 20	" April 9	- 1
Ljar	100	1	Sa April 4 May 2	30	Th April 21 F May 20	M April 10 Tu May 9	S April 29 M May 28
	-	W May 14	1	T		W May 10	Tu May 29
• •	90,		M June 1	53	" June 18	" June 7	- 1
Thamuz	-	F June 13	Tų June 2	T 6	S June 19	Th June 8	W June 27
	63	" July 11	00 " "	6		Co Tuly 0	F Tuly 97
• •		Sa July 12 S Aug. 10	Th July 1	55 59	Tu July 19 , Aug. 16	Aug. 5	
	-	M Aug. 11	F July 31	٦	Ι.	S Aug. 6	Sa Aug. 25
•	53	" Sept. 8	" Aug. 28	80	Th Sept. 15	M Sept. 4	S Sept. 23
•	Н	Tu Sept. 9	د ا	- ;	F Sept. 16	Tu Sept. 5	M Sept. 24
Hyperberetæns	 30 10 10 10 10 10 10 10 10 10 10 10 10 10	W Oct. 8	S. Sept. 12	26 26 26 26 27	" Oct. 14	" Oct. 3	" Oct. o " " 22
-	-	Th Oct. 9		-	Sa Oct. 15	1	Tu Oct. 23
•	53	" Nov. 6	-	30	S Nov. 13	Th Nov. 2	W Nov. 21
	-	F Nov. 7	Tu Oct. 27	1	M Nov. 14	F Nov. 3	Th Nov. 22
•	 00 00	Sa Dec. 6	W Nov. 25	53	" Dec. 12	" Dec. 1	Dec.
  •	-	S Dec. 7	Th Nov. 26	-	Tu Dec. 13	Sa Dec. 2	F Dec. 21
Andvnæus §		A.D. 67. Jan. 4	Dec. 24	 08	A.p. 69. W Jan. 11	S .:	:
:	-	M Jan. 5	F Dec. 25	T	Th Jan. 12	Jan.	:
			A.D. 68, B.		i	A.D. 70.	
-	200		Sa Jan. 23	63	" Feb. 9	" Jan. 29	:
•	<del>-</del> - 2	W Feb. 4	S Jan. 24	1 8	F Feb. 10	Tu Jan. 30	:
	£;	" Mar. 4	4	OFF		W Feb. 28	•••
· ·	 :	:	1. M Feb. 22	:	:	1. Th Mar. 1	:
· ·	- :	:	Ξ.	:	:	30. F Mar. 30	:

JEWISH AND SYROMACEDONIAN MONTHS, A.D. 66-70. Dates from Tables, Jerusalem Civil Time.

	1		1										
А.Б. 70,	d. $h$ . Mar, $0.30$ 20 Friday	April. 29 3 Sunday	May . 28 10 Monday	June . 26 17 Tuesday	July , 26 3 Thursday	Aug., 24 14 Friday	Sept. 23 5 Sunday	Oct. 22 23 Monday	Nov., 21 18 Wednesday	Dec 21 13 Friday			
A.D. 69.	Mar. $11$ 19 Saturday	April. 10 3 Monday	May 9 11 Tuesday	June 7 19 Wednesday	July, 7 6 Friday	Aug. · ō 19 Saturday	Sept. 4 11 Monday	Oct. 4 5 Wednesday	Nov. 3 0 Friday	Dec. 2 18 Saturday	Jan. 1 10 Monday	Jan 31 0 Wednesday	Mar. 1 11 Thursday
A.D. 68.	$\begin{array}{ccc} d & h. \\ Mar. & 22 & 3 \\ Tuesday \end{array}$	April. 20 12 Wednesday	May . 19 23 Thursday	June . 18 11 Saturday	July . 18 2 Monday	Aug. 16 18 Tuesday	Sept 15 11 Thursday	Oct 15 4 Saturday	Nov. 13 20 Sunday	Dec 13 11 Tuesday	Jan. 11 23 Wednesday	Feb. 10 10 Friday	
А.В. 67.	d. $h$ . $d$ . $d$ . $d$ . Wednesday	April. 2 15 Thursday	May . 2 4 Saturday	May . 31 18 Sunday	June . 30 9 Tuesday	July . 30 1 Thursday	Aug 28 17 Friday	Sept 27 8 Sunday	Oct 26 21 Monday	Nov 25 10 Wednesday	Dec 24 21 Thursday	Jan. 23 8 Saturday	Feb 21 18 Sunday
А.р. 66.	d. h. Mar. 14 20 Friday	April. 13 11 Sunday	May . 13 2 Tuesday	June . 11 18 Wednesday	July 11 8 Friday	Aug. 9 21 Saturday	Sept. 8 9 Monday	Oct. 7 21 Tuesday	Nov. 6 8 Thursday	Dec. 5 19 Friday	Jan 4 6 Sunday	Feb. 2 16 Monday	
Jewish and Syromacedonian M.	1. Nisan	2. Ijar	3. Siyan	4. Thamuz	5. Ab	6. Elul	7. Tisri	8. Marchesvan Dius	9 Kisleu	10. Tebeth	11. Shebat	12. Adar	13. Ve-adar

## CANON OF S. HIPPOLYTUS.

The Octaëteris, or 8-years' lunar cycle, was one of the Paschal cycles in early use in the Christian Church. In the year A.D. 1551 was disinterred near the church of St. Laurence, at Rome, a marble monument of an ecclesiastic seated in a chair, on each side of which was an inscription in Greek; on the right side, a Paschal cycle beginning at the first year of Alexander Severus, with seven columns of dates; and on the left a table of corresponding Easter Sunday dates. The monument is preserved in the Vatican.

The exordium of the Canon is as follows:—"In the first year of the Emperor Alexander, the fourteenth of the Passover fell on the Ides of April, Saturday, the preceding year having received an intercalary month. In the succeeding years the day will be as is set down below in the Table. In the preceding years it fell as is here marked." The statue has been recognised as that of Hippolytus, Bishop of Portus, who wrote a treatise on the Passover, and constructed a 16-years Paschal cycle (the Octaëteris doubled).

We give here a copy of the Paschal Table of the monument. The first column contains the date of the 14th day of the Paschal moon, for 16 years, with the weekdays indicated by the first seven letters of the alphabet. The remaining columns contain only the weekdays, on the assumption that the Julian date recurs after a lapse of sixteen years. It is interesting to observe that the earliest Paschal limit in the Canon of Hippolytus is the 18th of March, which was, according to the Acta Pilati, the day of the Crucifixion, A.D. 29.

This venerable Christian calendar is correct as to its weekdays throughout, and also as to the coincidence of the full moon with its 14th day of the month in the earlier entries; but the later dates are out of harmony with the times of full moon, owing to the error of the 8-years' cycle, as will be seen by a comparison of the Julian dates in the first column of the Canon of Hippolytus, and those in the remaining columns, with the dates of the actual full moons from our lunar Tables. Thus, instead of the first date, April 13, being repeated in the years A.D. 222, 238, 254, 270, 286, 302, and 318, as in the Canon, the true dates of full moon in those years are April 14, 16, 19, 22, 26, 29, and May 2; the error growing with each repetition of the cycle, until it amounts to 18 days, and in its course making the Paschal full moon of the Canon of St. Hippolytus coincide with the new moon of the heavens. The error of the Canon in its later, and its correctness in its earlier dates, confirm the inscription it bears assigning its composition to the first year of the Emperor Alexander Severus, A.D. 222.

CANON OF S. HIPPOLYTUS. (Browns, Ordo Sæclorum).

14th of the Moon.	4.D.	1st Cycle,	A.D. 2nd Cyole, A.D. 3rd Cycle, A.D.	yole.	1, D. Sr	d Cycle.	A.D.	4th Cycle.	A.D. 6t	h Cycle.	A.D.	A.n. 6th Cycle. A.n. 6th Cycle. A.n. 7th Cycle.	A.D.	7th Cycle.
1 18 April	ζį	Sat,	238 Fri.		254 7	Thurs,	270	Wed,	286	Tues.	302		818	Sun.
2 2 April	89			Tues.		Ton.		Sun.	2	Sat.	ထ	Fri.	6	Thurs.
		Sun. (Hezekiah)	240 Sat.		9 I	Fri. )	<b>C</b> 7	Thurs.	00	Wed.	4	Tues.	320	Mon.
C	1		,		92	ua) }								
	٥	Sat. (Josias)	I Fri			Thurs.		Wed.	6	Tues.	က	Mon.	-	
o za mar.	91	Wed.	2 T <sub>u</sub>	es.	8	Mon,		Sun.	290	Sat.	9	Fri.	01	
o 18 Mar.		Sun.				Fri,	ಸ	Thurs.		Wed.	2	Tues.	က	
linde o	∞	Sat	4 Fri.	_	260 T	hurs.	9	Wed.(Joshua)	<u>.</u>	Tues.	œ	Mon.	4	Sun.
• 6	•	,						Daniel)						,
8 Zo Mar.	0	Wed.	5 Tu	es,		[on:		Sun.	က	Sat.	6	Fri.	ഹ	Thurs.
9 13 April	, 25 75 75 75	Tues,	6 Mon.	'n.	23 20	Sun.	œ	Sat.	4	Fri.	310	Thurs.	9	Wed.
IO Z April	-	Sat	7 Fri			hurs.		Wed.	က	Tues.	H	Mon.	2	Sun.
11 91 90 Mar	С	West												(Exode)
10 to Amil	4 C	wed.	S Tues.	es.				Sun.	9	Sat.	C3	Fri.	00	Thurs.
12 3 April	0	T.nes.	9 Mon.	-i	ro RO	Sun.		Sat.	2	Fri.	က	Thurs.	6	9 Wed. )
													(Pass	Passover in }
13 29 Mar.	4	Sat.	950 Rr.			PILLO		E-7XX	c	E	•	ļ	the	the Desert)
14 18 Mar.	ıc	Wed	1 11102	. 5	i ž	Mar.	۱ د	wen.	× ×	T.nes.	4	Mon.	230	Sun.
	9	Tres (Evolue)	7 0	į,		.по		onn.		Sat.	က	Fri.	-	Thurs.
)	•	Danial		ď	Σ Σ	Sun.	41	Sat.	300	Fri.	9	Thurs.	2	Wed.
16 25 Mar.	2	Sat.	0 E											(Ezra)
-			(Passion)		T.	Tugis.	o	wed.	-	Tues.	_	Mon.	ೞ	Sun.
-														

CANON OF S. HIPPOLYTUS, (Dates from Tables, Jerusalem Civil Time.)

1		
	May 2 April 21	May 3 April 23 30 31 30 30 30 30 30 30 30 30 30 30 30 30 30
A.D.	318 319 320 321 322 323 324 324	826 828 828 829 829 830 831 832
	April 29 " 18 " 6 " 25 " 15 " 4 " 12	April 30  " 19 " 27 " 16 " 26 " 16
A.D.	302 304 304 305 306 307 308 308	310 311 312 313 313 315 315 316
	April 26  " 15  " 22  " 12  " 12  " 19  " 19	April 27 16 16 18 19 19 13 13 19 10
A.D.	286 288 289 289 290 291 292 293	294 295 296 297 298 299 300 301
	April 22  Mar. 31  April 19  April 19  " 9  Mar. 29  April 16  April 16	April 24 " 18 " 21 " 21 Mar. 30 April 17 " 7
A.D.	270 271 272 273 274 275 275 276 276	278 279 280 281 252 253 254 255
	April 19  " 8  Mar. 28  April 16  " 6  Mar. 26  April 12  " 2	April 21 Mar. 30 April 18 ", 7 Mar. 27 April 14
A.D.	254 255 256 257 258 259 260 260	262 263 264 265 266 267 268 269
	April 16  Mar. 25  April 13  Mar. 28  April 10  Mar. 28	April 18 Mar. 27 April 15 " " " 4 Mar. 24 April 11 " 1
A.D.	288 239 240 241 242 243 244 244 245	246 247 248 249 250 251 252 253
	April 14  " 8 " 21 " 10  Mar. 30  April 7  Mar. 27	April 15  " 5  Mar. 24  April 12  " 1  Mar. 21  April 8  April 8
A.D.	222 223 224 225 225 226 227 228 228	230 231 232 233 233 235 235 236
	11 23 35 41 12 12 12 12 12	9 11 12 13 14 15 16

## EPACT IN THE CHRISTIAN CALENDAR.

In our modern calendar the epact for the year is given. The application of the dates in the *Tables* to the Christian calendar of past times casts interesting light on the origin of the ecclesiastical use of epact, or the time when it was first introduced from the Greek into the Christian calendar.

A discovery of the errors of the Octaëteris, and other similar cycles, led to the employment of epact. In old style the epact was the age of the moon on the first possible location of Easter day, the 22nd of March; in new style epact means the age of the moon on the 1st of January. The excess of the solar year above the lunar is 10 d. 21 h. In case the new moon falls on the 1st of January, its age on the following 1st of January will be 10 d. 21 h., or 11 days. In the second year it will be double this, or 22 days; and in the third year treble, or 31-32 days; of this quantity 29½ days will form an intercalary month, and the remaining 3 days will be the epact for the year.

In the course of the 19-years' lunar cycle, the epact for the contained years will be 11, 22, 3, 14, 25, 6, 17, 28, 9, 20, 1, 12, 23, 4, 15, 26, 7, 18, 29 days. In the following table this series of epact amounts stands in the first column, while the true age of the moon on the 22nd of March is shown in three 19-years' periods, separated by 532 years. (The period of 532 years consists of the 28-years' solar cycle of the week, multiplied by the 19-years' lunar cycle.) It will be seen that while a comparison of the epact quantities in the first column with the age of the moon in the central sixth century column reveals a correspondence, in the first century column the age of the moon on the 22nd of March falls short of the assigned epact by 2 days throughout, and in the eleventh century column the dates are 2 days in excess. The correspondence in the centre column indicates

the antiquity of the ecclesiastical calendar, and confirms the historical date of its origin.<sup>1</sup>

EPACT. OLD STYLE.

(JERUSALEM CIVIL TIME.)

Epact.	A.D.	Age of Mean Moon. March 22.	A.D.	Age of Mean Moon, March 22,	A.D.	Age of Mean Moon. March 22.
d. 111 222 3 144 255 6 177 288 9 20 1 12 23 4 15 26 7	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	March 22.  d. h. 8 15 19 6 0 8 11 28 22 15 3 17 14 8 25 28 7 2 17 17 28 8 10 11 21 2 2 4 11 20 24 11 5 18	588 584 585 586 587 588 589 540 541 542 548 544 545 546 547 548	March 22.  d. h. 10 7 20 28 2 1 18 16 21 8 5 10 16 1 27 16 8 19 19 10 0 12 12 4 22 19 8 21 14 12 26 4 7 6	1065 1066 1067 1068 1069 1070 1071 1072 1078 1074 1075 1076 1077 1078 1079 1080 1081	March 22.  d. h. 12 0 22 16 8 18 15 9 26 0 7 8 17 18 29 9 10 12 21 8 2 5 18 21 24 12 5 14 16 5 27 21 8 28
18 29	18 19	16 4 26 20	550 551	17 21 28 13	1082 1088	19 14 0 17

<sup>&</sup>lt;sup>1</sup> A simple and ingenious correction of the epact quantities employed in the calendar was proposed by Luilius, and adopted at the reformation of the calendar; it consisted of increasing the epact 1 day in 16 lunar cycles, or 304 years, or changing the epact series 11, 22, 3, etc., to 12, 23, 4, etc.

The lunar character of the Jewish Calendar is shown in the following table of the twelve months which constituted its year 5604, corresponding to Sept., 1843—Aug., 1844. The true new moons are from our Tables; and it will be noticed that the Jewish months fall a little later, and that they fairly agree with the dates of lunar phasis.

CALENDAR OF JEWISH YEAR 5604.

No. of Month.	True Ne	w Moo	ns—T	ables.	Jew	ish Months.
I. III. IV.  V. VII. VIII. IX. X. XII.	Sept. Oct Nov. Dec.	24 25 21 21 21 18 18 19 17 17	. h. d. 0 8 9 19 7 7 144. 20 8 10 2 11 15 2 16	58 53 54 21 21 50 80 53 10 85	Sept. 25 Oct. 25 Nov. 24 Dec. 24  Jan. 22 Feb. 21 Mar. 21 April 19 May 19 June 18 July 17 Aug. 16	1st of Tisri ,, Hesvan ,, Kislev ,, Tebet ,, Sebat ,, Adar ,, Nisan ,, Yiar ,, Sivan ,, Tamuz ,, Ab ,, Elul

## SOLAR AND LUNAR CYCLES.

3. Having shown the use of the *Tables* in the verification of particular dates, and of series of dates, it remains to exhibit their use in tracing lunar and solar cycles.

The 49-years' Jubilee cycle, employed in early times by the Jews, has an error which accumulates to 1 month in 22 Jubilees, or 1078 years. In the following table the accumulation of the error can be seen at a glance, and its correction in the 1078 years' cycle.

2300-YEARS' CYCLE.

Correcting the Error of the 19-Years' Metonic Cycle.

Jerusalem Civil Time, O.S.

No.	Years.	в.с.	Vernal	Equi	nox.	Mean New Moon.				
1 2 3 4 5 6 7 8 9 10	209 418 627 836 1045 1254 1463 1672 1881 2090 2299	457 248 39 A.D. 171 880 589 798 1007 1216 1425 1634 1843 1844	Mar. "" "" "" "" "" "" "" "" "" "" ""	d. 26 25 23 22 19 18 17 15 13 12 10 9 8	h. 10 1 16 7 22 18 5 20 11 2 17 8 14	Mar. """"""""""""""""""""""""""""""""""""	d. 25 25 24 24 22 21 21 20 19 18 7	h. 12 2 16 5 19 9 23 13 3 17 7 21 6		

We terminate our brief examination of cycles connected with the principal calendars by tracing the 42 cycles of the Mohammedan Calendar, which extend from its starting point at the Hejira era, July 16, a.d. 622, to the year 1844. The Mohammedan Calendar is strictly lunar, and is based on a 30-years' cycle of the lunar month and solar day. Thirty lunar years are 360 months, or lunations, each month being reckoned at 29 d. 12 h. 44 m. The fraction 12 h. 44 m., multiplied by 360, amounts to 191 d. 0 h. 0 m. Thus 360 lunations, or 30 lunar years, are 10,631 d. 0 h. 0 m., according to the Mohammedan Calendar, which omits the small remaining fraction of 3 seconds in the length of the lunation.

The first of Moharram in the calendar corresponds with the lunar *phasis*, and is preceded by the actual new moon throughout, as shown in the following table:—

 ${\tt lxxii}$  42 LUNAR CYCLES OF THE MOHAMMEDAN CALENDAR.

4. The principal use of the *Tables* is the demonstration they afford of the astronomic character and value of the periods 1,260 and 2,300 years, and of their difference 1,040 years; periods shown to be solar and lunar cycles by the Swiss astronomer, De Cheseaux, more than a century ago.

The present volume of Tables confirms the remarkable conclusions reached by De Cheseaux, and greatly enlarges the evidence of the accurate and far-reaching adjustment connecting these periods with solar and lunar revolutions. De Cheseaux proved that 1,260 and 2,300 tropical years, and their difference 1,040 years, are cycles of synodic months and solar or equinoctial years, and that the latter is the largest accurate cycle of this order known, besides being a cycle of the solar day and solar year. The present volume of Tables proves that 2,300 years has a cyclical connection with solar and lunar anomaly, that it is a cycle of the anomalistic month, with the synodic month and solar year, and also measures 40 days of the annus magnus of the revolution of the solar perigee with reference to the equinoxes; and that therefore it is possible to deduce from these periods not only the measures of the synodic month and tropical year, but those of the anomalistic month and anomalistic year, and that with such correctness as to afford a basis for the computation of astronomic tables of equinoxes, and new and full moons, both mean and true, for any required period.

More than 100,000 solar and lunar dates, extending over 3,555 years, have been calculated from these remarkable cycles, and are tabulated in this volume; namely 101,217 vernal equinoxes, and new and full moons, mean and true, occupying 627 pages of printed matter. The correctness of the *Tables* is amply confirmed by the correspondence of their dates of new and full moons with those of more than 12,000 solar and lunar eclipses in Oppolzer's invaluable Canon der Finsternisse.

Finding M. de Cheseaux's work in the British Museum, and having had it carefully transcribed. I submitted the copy to the examination of the late Professor J. C. Adams, of Cambridge, in the year 1878. While verifying De Cheseaux's calculations as to the cyclical character of the periods 1,260, 2,300, and 1,040 years, Professor Adams pointed out that De Cheseaux had erred in supposing "that the excentricity of the earth's orbit was the same in the time of Daniel as in his own time, whereas it was very sensibly greater." De Cheseaux's error on this point, which arose from the imperfection of astronomic knowledge on the subject in his day, certainly vitiated his attempt to derive from these cycles the five elements of the solar theory; in his own words, to deduce "les eing elements de la Theorie du Soleil, d'une manière autant et plus exacte, que par les meilleures methodes astronomiques." Within the last century, Laplace, Leverrier, Adams, Hansen, Plana, De Pontécoulant, and other astronomers have devoted much attention to the question of the diminution of the excentricity of the earth's orbit, and have not only established the change of excentricity and measured its rate, but liave traced out its cause and its effects; that it is "due to the combined action of all the other planets," and is the cause of the secular acceleration of the moon's mean motion, a change which is "one of the most curious and instructive in the range" of physical astronomy, "one which leads our speculations farther into the past and future, and points to longer vistas in the dim perspective of changes which our system has undergone, and is yet to undergo, than any other which observation, assisted by theory, has developed." The moon is now "about a degree ahead of where she ought to have been had her motion been uniform from the time of Hipparchus and Ptolemy." 2 The investigations of Pro-

<sup>&</sup>lt;sup>1</sup> Outlines of Astron., Sir J. Herschel, art. 740. <sup>2</sup> Newcomb, Astron., p. 96.

fessor Adams have shown that the account received by astronomers of the cause of lunar acceleration was incomplete, and explained only half the acceleration. Delaunay, the French mathematical astronomer, traced the remaining effect to "tidal friction" as reducing the rate of the earth's axial revolution.

A consequence of the secular acceleration of the moon's mean motion is that the value of the synodic month, generally accepted by astronomers in the present day, 29d. 12h. 44m. 2.84s., or 29.5305887 days, yields results which require correction for distant periods, past or future. It is impossible to assign any period as the exact measure of the synodic month which will hold good for all time. In adopting as the measure of the synodic month, at the base of the present Tables, a period slightly larger than the above, derived directly from the 1,040 years' cycle, viz., 29d. 12h. 44m. 3s. 6thirds, or 29.5305916,¹ we employ a measure which, in the absence of any correction for secular inequalities, yields better results² than the best and most accurate measures of the lunation now used by astronomers.

In illustration of this we may point to the dates in the present Tables of the mean new moons in the fourth century, when the Christian Calendar now in use took its rise. Calculating the date of the first mean new moon in A.D. 301 (Jerusalem civil time) by the tables in the Encyclopædia Britannica, and correcting for secular inequalities, we reach results which closely agree with the date of the mean new moon in our Tables.

<sup>&</sup>lt;sup>1</sup> Exceeding 29.5305887 by .0000029, a fraction of a single second.

<sup>&</sup>lt;sup>2</sup> For past dates.

#### lxxvi

l.	h.	m.	s.
4	7	39	9
			<b>5</b> 9
25	20	5	8
+	<b>2</b>	21	0
+	12		0
26	10	26	8
-	. 1	18	33
26	9	7	35
	4 1 25 + + 26	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

On comparing the result here with our *Tables*, we find a close agreement with our *uncorrected mean new moon* for the same date. The first mean new moon, a.d. 301, in our *Tables* is January 26d. 9h. 7m. The agreement of our mean new moon with the *corrected* mean new moon of the *Encyclopædia Britannica*, proves that the 1,040 years' cycle, from which we derive our measures, is closely adjusted to the chronology of the century distinguished by the institution of the Christian Calendar.<sup>1</sup>

In order to show this fact we have calculated by the astronomical tables in the *Encyclopædia Britannica*, 7th edition, the date of the first mean new moon in each century from A.D. 1801 to B.C. 800, applying in every case the secular corrections, which run from 0h. 0m. 0s. in 1801, to 3h. 52m. 5s. in B.C. 800. We have then compared the series of dates thus obtained with the mean new moons in our *Tables* for the same period, and find the following differences:—

<sup>&</sup>lt;sup>1</sup> The date of the Council of Nice was A.D. 325.

FIRST MEAN NEW MOON IN EACH CENTURY.

DIFFERENCES OF THE DATES IN OUR TABLES FROM THOSE CALCULATED FROM TABLES IN ENGYCLOPÆDIA BRITANNICA, CORRECTED BY SECULAR EQUATIONS.

A.D.	Differences.	A.D.	Differences.
1801 1701 1601 1501 1401 1301 1201 1101 1001, 901 801 701 601 501 401	h. m. s.  -0 2 0  -0 5 39  -0 9 35  -0 13 48  -0 16 19  -0 18 9  -0 19 16  -0 20 41  -0 20 25  -0 19 28  -0 17 50  -0 15 30  -0 13 30  -0 10 50  -0 5 29  -0 0	201 101 1 B.C. 100 200 300 400 500 600 700 800	h. m. s. +0 4 20 +0 11 35 +0 18 36 +0 26 16 +0 33 35 +0 42 33 +0 51 11 +1 2 27 +1 12 21 +1 23 54 +1 35

The adjustment of the measures of the lunation derived from the 1,040 years' cycle to the uses of the Christian Calendar is proved by the fact that the error resulting from their employment nowhere exceeds 20 minutes. Employing these measures, and starting with the month of March, A.D. 1844, we reach an error of 2 minutes in 1801; the error grows to 20 minutes in A.D. 1101, and then diminishes to 0h. 0m. in A.D. 301, increasing again to  $18\frac{1}{2}$  minutes in A.D. 1.

In computing the long series of lunar dates contained in our Tables, the saving of time and labour by dispensing with the use of secular equations has been very great. When employing our Tables, those who are desirous of greater accuracy than they afford can apply the needed corrections, but the errors we have indicated may well be considered as

too small to affect injuriously the value of the Tables for all ordinary chronological purposes.

On page xvii. the first solar eclipse of each century from B.C. 1100 to A.D. 1900, as stated in Oppolzer's Canon, is compared with the corresponding true new moon of our Tables. It will be observed that while the mean difference between the two series of new moons is -10 minutes, the minus differences prevail in the second half of the series, and the plus differences in the first half. This agrees with the result we have just exhibited of employing a measure of the synodic month derived from the 1,040 years' cycle, exceeding by a fraction of a second that used by Oppolzer and other modern astronomers. Though thus slightly exceeding the lunation of the most modern tables, our measure of the synodic month is in fairly close agreement with the lunation of lunar tables of a little older date.

#### LUNATION.

1	d.	h.	m.	8.	111	1111
Ferguson's Tables	29	12	44	3	2	58
From 1,040 Years' Cycle	29	12	44	3	6	57

#### 10,000 Lunations.

	d.	h.	m.	<b>s.</b>	111
Ferguson's Tables	295,305	21	48	15	20
From 1,040 Years' Cycle	295,305	21	59	19	8

The mean of the lunations used by Cassini, Flamsteed, De la Hire, Bouillaud, Tycho, etc., as shown by De Cheseaux, has no sensible difference from the measure yielded by the 1040 years' cycle.

A word in conclusion as to the labour and care with which the present *Tables* have been computed. The whole of the new moons from B.C. 747 to A.D. 1934, and also of the vernal equinoxes for the same period, have been *twice computed*, and the results carefully compared throughout.

The first calculation of the true new moons was made on Houzeau's method "du calcul rapide des phases lunaires, à l'usage des personnes qui s'occupent d'ètudes historiques," based on the 7,412 days' anomalistic cycle, containing 251 synodic and 269 anomalistic months. This extensive table was calculated for me under the supervision of E. Walter Maunder, Esq., F.R.A.S., Secretary of the Royal Astronomical Society. Though valuable as a first draft, and as a means of checking the correctness of later work, the table, owing to its method of calculation, was less accurate than that presented in this volume; it was also less extensive, as commencing with B.C. 747 (date of the Nabonassar Era), whereas the present Tables ascend 875 years further to the probable date of the Exodus, B.C. 1622.

In the preparation of the present Tables I have had the assistance of a very careful computer, Mr. Thomas Wright, of the Nautical Almanac Office, who has also corrected the proofs as the work passed through the press. As an indication of the general accuracy of the work I may refer to the test of the mean new moons of the tables afforded by the 1040 years' cycle. Applied at any point the lunar cycle of 1,040 years shows a correspondence of the mean new moons at its commencement and close. The anticipation of the Julian equinox in 1,040 years is just 8 days; allowing for this, it will be found that the new moons correspond with remarkable accuracy.

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### CORRESPONDENCE OF MEAN NEW MOONS IN THE 1040 YEARS' LUNAR CYCLE.

A.D.					A.D.					
	The state of the s	 d.	ħ.	m.				d.	h.	712.
826	Mar.	20	9	27	1866	Mar.		12	9	27
	April	18	22	11		April		10	22	11
	May.	18	10	55		May.	٠	1()	10	ħ.
	June	16	28	89		June		н	28	135
	July.	16	12	28		July		H	12	23
	Aug.	15	1	7		Aug.		7	1	7
	Sept.	18	18	51		Sept.		75	133	61
	Oct	18	2	85		Oct		5	2	85
	Nov.	11	15	19		Nov.	٠	8	15	11
	Dec	11	4	8		Dec		33	4	8

в.о.	Mean l	Nev	▼ Moc	n.	Dim	re.	
1622 582	April . March		d. 5 28	h. 5	$\left. egin{array}{ll} m. & d. \\ 12 \\ 12 \end{array} \right\}  8$		
1046 6	Sept Sept				$\left\{ \begin{array}{c} 2\\2 \end{array} \right\}$ 8	0	0
1012 A.D. 29	March March		12 4	0	0 8	0	0
B.C. 82 A.D.	Jan		20	8	1 \ 8	0	0
959 29 1069	Jan March Feb		12	8 0		0	0
622 1662	July . July .		14	0	17 } 8	0	0
894 1934	Oct Sept		8 25		19 } 8	0	0

We will close this Introduction by citing the testimony of one or two competent witnesses as to the intimate connection of Natural and Revealed Chronology.

In the chapter on Chronological Astronomy, contained in the fourth edition of his Handbook of Astronomy, George F. Chambers, F.R.A.S., after giving an account of De Cheseaux's discoveries brought under public notice in my works, and also of some of my investigations in the same direction, adds the following reflections: "Such are some of the adjustments which astronomy discloses between the prophetic times and the periods which affect the material universe. They are adjustments of such a character as only modern science, with its instruments of exact precision, could discover, and were of necessity unknown to the prophets of bygone ages. The periods which the prophets foretold as destined to measure cycles of moral harmonization are themselves cycles of material harmonization. There is a mutual adjustment between the material and moral worlds. The course of revealed Redemption chronology, Levitical and Prophetic, is in profound and exact agreement in all its details and all its extent with the Time Order of the Universe."1

We will conclude with a sentence from De Cheseaux's treatise on the astronomical character of the prophetic times in the Book of Daniel. "For many ages the Book of Daniel, and especially these passages of it, have been quoted and commented on by numerous and varied authors, so that it is impossible for a moment to call in question their antiquity. Who can have taught their author the marvellous relation of the periods he selected with soli-lunar revolutions? Is it possible, considering all these points, to fail to recognise in the Author of the Book of Daniel, the Creator of the heavens and all their hosts, of the earth and the things that are therein?"

<sup>1</sup> Vol. II., p. 467.

SUPPLEMENTARY NOTES BY MR. MARTH ON THE EQUINOX DATES, AND LENGTH OF THE EQUI-NOCTIAL YEAR.

THE Vernal Equinoxes in this volume are all mean Vernal Equinoxes. A Table has been computed by Mr. Marth, which we append, to exhibit the correction they require for the times (approximately stated) of the true Vernal Equinoxes.

"What is the real time of the Equinox? It is the time when the plane of the Earth's equator apparently passes through the Sun's centre, or when the geocentric declination of the Sun is 0°. About the time of the Equinox the hourly rate of change of declination is about 1', or in one minute of time the declination changes about 1". The determination of the time of the Equinox is accordingly a rather complicated problem, and Bradley's observations in the middle of the last century are really the first which nowadays can be used, the remaining errors at the Vernal Equinox being fortunately counteracted by those of the Autumnal Equinox. The differences of the times of successive Equinoxes vary considerably, as may be easily found by comparing the times given in the Nautical Almanac up to 1875, since later on the times are only given to the nearest hour. Yet the length of the sidereal solar year does not change, and that of the tropical year only changes on account of the precession changing. For the solar year is determined by the Sun's mean longitudes reckoned from the mean Equinox, and these are deduced from the observed longitudes by taking all the perturbations, and especially the eccentricity, of the earth's orbit duly into account. If all the smaller perturbations are neglected, and only the eccentricity and the shifting of the perigee are taken into account, the times between successive Vernal and Autumnal Equinoxes and the length of the tropical year may be found in the following

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computation deduced from Le Verrier's Tables, which are certainly the most trustworthy at present, though they may be supplanted before long by Newcomb's new ones, which will take into account the observations of the last forty years. By looking over the differences of the Equinoxes, it is seen that for the Vernal Equinoxes the differences increase, as they have done since B.C. 3000, when they were at a minimum  $48^{\text{m}}\ 20^{\text{s}}.8$ ; while the differences of the Autumnal Equinoxes decrease rather faster than the length of the tropical year."

LENGTH OF THE TROPICAL YEAR AT DIFFERENT DATES, COMPUTED FROM LEVERRIER'S TABLES."

	Length of Tropical Year	Vernal Equinoxes.	Autumnal Equinoxes.
B.C. 1608 1498 1878 1263 1148 1083 918 808 688 578 458 349 228 B.C. 118	d. h. n. s. 865 5 49 4·69 4·07 8·45 2·88 2·21 1·59 0·97 49 0·35 48 59·73 59·11 58·49 57·86 57·24 56·68	h. m. s. 27·4 28·0 28·6 29·4 30·2 31·1 32·1 33·2 34·5 35·7 37·0 38·3 39·5 40·6	h. m. s. 5 49 42·8 40·2 38·0 35·8 31·5 29·4 27·4 25·4 28·8 21·3 19·1 16·9 14·6
A.D. 8 118 238 348 468 578 698 808 928 1088 1158 1268 1889 1498 1618 1728 1848 1958 2078	365 5 48 56·00 55·38 54·76 56·41 58·52 52·90 52·28 51·66 61·04 50·42 49·80 49·18 48·56 47·94 47·32 46·70 46·08 365 5 48 44·84	5 48 41.8 42.8 43.8 44.8 45.8 46.8 47.9 49.1 50.5 51.8 53.1 54.5 55.8 57.0 58.2 49 0.2 49 1.0 5.4	5 49 12·2 9·7 7·1 4·5 49 1·9 48 59·4 56·9 54·5 52·8 50·0 47·8 45·4 48·2 41·0 38·8 36·4 38·9 31·4 5 48 28·9

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#### VERNAL EQUINOX DIFFERENCES.

The differences of the times are rather variable, as a comparison of the times given in the Nautical Almanac shows.

			Vern	al Eq	uino	cos.				1	hillerences.
				d.	ħ.	772.					
1836			March	20	1	89	Gree	nwic	h.		m.
1840			"	11	0	41					5H
1844			17	19	28	55					46
1848			77	,,	28	19	,				:41
1852			"	17	22	42					117
1856			,,	11	21	49					- 544
1860			"	21	21	5					44
1864			17	17	20	10					- 55
1868			"	13	19	48					27
1872	•	•	"	"	18	57	•				413

If one is content to get the times within some twenty minutes, so that the places of the moon and planets need not be taken into consideration, the computation becomes simple, and requires merely proper interpolation, as the data can be taken from R. Schram's "Hilfstafeln für Chronologie," in vol. xlv. of the Denkschriften of the Vienna Academy. In the following computation I give the list of the days when the sun enters Aries from Schram's Tables, after having converted the days of the Julian period into those of the ordinary Julian Calendar. The intervals of 42,002 8 days are those of 115 years, so that the correction is best effected by interpolating for intervals of twenty-three years, or for five sub-intervals, taking the second differences duly into account, and then interpolating for the single years. The comparison of the resulting times with those of the Tables shows the correction required by the latter in the last column.

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# TABLE OF CORRECTIONS OF THE MEAN VERNAL EQUINOXES OF THIS VOLUME FOR DATES OF TRUE VERNAL EQUINOXES.

R. Schram, "Hilfstafeln für Chronologie." P. 10.

The dates in the first column are reduced from days of the Julian Period to the dates of the Julian calendar, and 6153 is added (59791 = 14 h. 21 m. for the reduction from Greenwich astronomical time to Jerusalem Civil Time, and 01738 for the added constants).

	Je	Vernal Equin rusalem Civil Old Style	Time.	<del>1 - 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 - 1 1 - 1 1 1 - 1 1 -</del>	Schr	am.		Tab	les.	Correction.	
в.с. 1608	Apr.	4.8978	02-8285	Apr.	$rac{d.}{4}$	ћ. 21	т. 33	d. h. 14	m. 56	h. +6	m. 37
1493	,,	3.7263	8293	11	3	17	26	11	<b>3</b> 0	5	56
1378	,,	3.5556	9	73	3	13	20	8	6	5	14
1263	39	2.3858	·8302 11	13	2	9	16	4	41	4	35
1148	"	1.2171	·8313 10	,,	1	5	13	1	16	3	57
1033	Mar.	31.0494	•8323 14 •8337	Mar	31	1	11	30 2	1 51	3	20
918	"	30.8831	14	11	30	21	12	18	26	2	<b>4</b> 6
808	,,	29.7182	•8351 16 •8367	, ,,	<b>2</b> 9	17	14	15	1	2	13
688	,,	28.5549	17	"	28	18	19	11	36	1	43
578	"	27.8983	•8384 17 •8401	11	27	9	26	8	11	1	<b>1</b> 5
458	,,	27.2334	17	,,	27	5	86	4	<b>4</b> 6	0	<b>5</b> 0
848	,,	26.0752	·8418 17	,,	26	1	<b>4</b> 8	1	21	0	27
228	13	24.9187	8485 15	,,	24	22	3	21	57	+0	6
113	,,	23.7637	•8450 15	"	23	18	20	18	31	-0	11
A.D. 3	,,	420 28·6102	02·8465 15	,,	28	14	89	15	7	0	28
118	,,	22.4582	•8460 12	,,	22	11	0	11	42	0	42
283	,,	21.3074	·8492 14	,,	21	7	23	8	17	0	54
348	,,	20.1580	·8506	,,	20	3	<b>4</b> 8	4	52	1	4
468	,,	20.0099	·8519 18	,,	20	0	14	1	27	1	13
578	,,	18.8631	·8532 15	11	18	20	48	22	2	-1	19
			•8547								

	J	Vernal Equ erusalem Civ Old Styl	il Time.	Schram.				Tables.		Correction	
693	Mar	. <b>17</b> ·7178	15 •8562	Mar	d.	ћ. 17	m. 14	h. 18	т. 37	л. —1	m. 23
808	,,	<b>1</b> 6·57 <b>4</b> 0	17 •8579	"	16	13	47	15	12	1	25
923	,,	16.4319	18 8597	,,	16	10	22	11	47	1	25
1038	"	<b>15</b> ·2916	17 •8614	,,	15	7	0	8	22	1	22
1153	,,	14.1530	19	,,	14	3	40	4	57	1	17
1268	"	13.0163	17 -8650	,,	13	0	23	1	32	1	9
1383	,,	12.8813	18	,,	12	21	9	22	7	0	58
1498	"	11.7481	16 •8684	,,	11	17	57	18	42	0	45
1613	"	10.6165	14 •8698	,,	10	14	48	15	17	0	27
1728	"	9.4863	·8712	,,	9	11	40	11	53	-0	13
1843	"	9.3575	11 002:8723	,,	9	8	35	8	27	+0	8
1958	"	8.2298	JU4'01'20								

#### DATES OF EQUINOXES AND SOLSTICES, B.C. 552.

"I have computed the times of the Equinoxes and Solstices for the year B.C. 552, and find they agree with those of Schram. When were Professor Adams' computations made? or what Tables did he employ? By Schram's Tables, taking into account the six smaller terms, I find—

				d.	h.	m.	
B.C.	Vernal Equinox		$\mathbf{March}$	27	11	31	Jerusalem Civil Time.
	Summer Solstice	٠.	June	29	15	6	
	Autumnal Equinox	•	Sept.	29	15	33	
	Winter Solstice	2	Dec.	27	4	0	

#### NOTES ON PROFESSOR ADAMS' COMPUTATION.

The examination of De Cheseaux' calculations by Professor Adams as to the dates of the Equinoxes and Solstices B.C. 552, was made for the author of the present work in 1878. In a

letter published at the time in the introduction to The Approaching End of the Age, Professor Adams says:—

"I have calculated very approximately the times of the Equinoxes and Solstices for the year B.C. 552, which is that given by De Cheseaux as the year of Daniel's vision, and I find the following results expressed in mean time at Jerusalem, reckoned from midnight.

			d.	h.	m.
Vernal Equinox		March	27	8	2
Summer Solstice		June	29	11	39
Autumnal Equinox		Sept.	29	11	51
Winter Solstice		Dec.	27	0	17

Professor Adams did not mention what Tables he employed. On the variance of the two computations, Mr. Marth writes, "A difference of  $3\frac{1}{2}$  or  $3\frac{3}{4}$  hours seems due to some error which may indeed occur in sporadic computations if one does not check them in several ways. I have tried to find the cause of the discrepancy, but have not succeeded in hitting upon a plausible conjecture which might serve as an explanation."

## MEAN AND TRUE LONGITUDE OF THE SUN AT THE NABONASSAR ERA, COMPUTED BY MR. MARTH.

"I have computed from Leverrier's Solar Tables the place of the Sun for—746, February 26th (B.C. 747), and find,—

					Alexa	ndri	a, noon.
Mean Longitude					$327^{\circ}$	58′	31.7"
Equation of Centro	à	•	•	•	+2°	2'	42.0′′
True Longitude .					880°	1′	18.7"

"The equation of the centre is near its maximum, the perigee being in 236° 12.5′, and the eccentricity was at that time greater than at present.

"A. MARTH."

#### TABLE

OF

### VERNAL EQUINOXES AND NEW MOONS

IN

"OLD STYLE"

FROM B.C. 1622 TO A.D. 1934.

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equipox.	Month.	Mean New Moon.	True New Moon.
B.C. 1622,	Т	d. h. m.	d. h. m.	B.C.	т	d. h. m.	d. h. m.
G.	Jan	•••	•••	1619. c.	JAN	3 6 9	3 10 26
April.	FEB	• • • •	•••	April.	FEB	1 18 53	2 4 33
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MAR	5 5 12	5 3 38	d.h.m.	MAR	3 7 38	3 20 20
0 0 02	APRIL MAY .	5 5 12 4 17 56		4 22 58	APRIL	1 20 22	2 9 10
	June .	3 6 40	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		MAY.	1 9 6	1 19 17
	JULY.	2 19 24	(2 6 52			(30 21 50	31 3 28
	JULY.	2 19 24	31 20 26		JUNE .	29 10 34	29 10 46
	Aug	$\begin{cases} 1 & 8 & 8 \\ 30 & 20 & 52 \end{cases}$	30 12 45		JULY .	28 23 18 27 12 2	28 18 16 27 2 55
	SEPT	29 9 36	29 7 4		SEPT	26 0 46	25 13 25
	Ост	28 22 20	29 2 4		Ocr	25 13 30	25 2 11
	Nov	27 11 4	27 20 14		Nov	24 2 14	23 17 19
	DEC	26 23 48	27 12 19	:	DEC	23 14 58	23 10 18
1621.	Jan	25 12 32	26 1 39	1618.	JAN	22 3 42	22 4 16
F.E.	TEB.	24 1 16	24 12 16	B.	FEB	20 16 26	20 22 2
	MAR.	24 14 1	24 20 43		MAR.	20 10 20	20 22 2
4 11 21	APRIL	23 2 45	28 8 46	5 4 47	APRIL	20 17 55	21 4 36
4 11 21	MAY .	22 15 29	22 10 34	9 4 47	MAY .	20 17 35	20 16 23
	JUNE .	21 4 13	20 18 9		June .	18 19 23	19 2 11
	July .	20 16 57	20 3 39		JULY .	18 8 7	18 10 52
	Aug	19 5 41	18 15 54		Aug.	16 20 51	16 19 22
	SEPT.	17 18 25	17 7 15		SEPT.	15 9 35	15 4 31
	Ост	17 7 9	17 1 16		Oct.	14 22 19	14 14 50
	Nov.	15 19 58	15 20 44		Nov.	13 11 3	13 2 35
	DEC	15 8 37	15 16 1		DEC	12 23 47	12 15 54
		, ,					
1620.	JAN	13 21 21	14 9 28	1617.	JAN	11 12 31	11 6 36
	FEB	12 10 5	13 0 7	A.G.	FEB	10 1 15	9 22 25
	MAR	13 22 49	14 11 89		MAR.	10 13 59	10 14 47
4 17 10	APRIL	12 11 33	12 20 36	4 10 36	APRIL	9 2 43	9 6 57
	MAY .	12 0 17	12 3 51		MAY .	8 15 27	8 22 5
	June .	10 13 1	10 10 31	!	June.	7 4 11	7 11 41
	July .	10 1 45	9 17 43		JULY .	6 16 55	6 23 39
	Aug	8 14 29	8 2 27		Aug	5 5 89	5 10 22
	SEPT	7 3 13	6 13 36		SEPT	3 18 23	3 20 31
	Oct.	6 15 57	6 3 40		Oct	3 7 7	8 6 39
	Nov.	5 4 41	4 20 28		Nov	1 19 51	1 17 18
	DEC	4 17 25	4 15 13		DEC	$\begin{cases} 1 & 8 & 35 \\ 30 & 21 & 19 \end{cases}$	1 4 18 30 15 58

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1616. F. April. d. h. m. 4 16 25	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	d. h. m. 29 10 3 27 22 48 29 11 32 28 0 16 27 13 0 26 1 44 25 14 28 24 3 12 22 15 56 22 4 40 20 17 24	d. h. m. 29 4 19 27 17 35 29 7 50 27 22 58 27 14 17 26 5 22 25 19 37 24 8 51 22 21 10 22 8 48 20 19 58	B.C. 1613. c.s. April. d. h. m. 4 9 51	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	d. h. m. 27 1 13 25 13 57 26 2 42 21 15 26 24 4 10 22 16 54 22 5 38 20 18 22 19 7 6 18 19 50 17 8 31	d. h. m. 27 10 47 25 19 55 26 3 45 24 11 6 23 19 3 22 4 41 21 16 51 20 7 55 19 1 31 18 20 31 17 15 25
	DEC	20 . 6 8	20 6 41		DEC.	16 21 18	17 15 25
1615. E.	JAN FEB MAR	18 18 52 17 7 36 18 20 21	18 17 4 17 8 22 18 14 8	1612.	JAN FEB MAR	15 10 2 13 22 46 15 11 30	15 23 28 14 11 18 15 20 36
4 22 14	APRIL MAY.	17 , 9 5 16 21 49	17 1 58 16 15 17	4 15 40	APRIL MAY.	14 0 14 13 12 58	14 4 7 13 10 52
	JUNE . JULY . AUG SEPT OCT	15 10 33 14 23 17 13 12 1 12 0 45 11 13 29	15 6 8 14 22 1 13 14 13 12 6 0 11 20 47	, ,	JUNE . JULY . AUG SEPT OCT	12 1 42 11 14 26 10 3 10 8 15 54 8 4 38	11 17 53 11 2 20 9 13 9 8 3 3 7 19 54
	Nov Dec	10 2 13 9 14 57	10 10 17 9 22 22	5	Nov Dec	6 17 22	6 14 52 6 10 28
1614. D.	JAN FEB MAR APRIL	8 3 41 6 16 25 8 5 9 6 17 53	8 9 4 6 18 34 8 3 20	1611. G.	JAN FEB MAR	4 18 50 3 7 34 4 20 19	5 4 59 3 21 3 5 10 4
	MAY . June .	6 6 37 4 19 21	4 9 1	4 21 29	MAY.	3 9 3 2 21 47 1 10 31	3 20 8 3 4 5 1 10 55
	AUG SEPT	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 22 40 2 14 31 1 7 54		JUNE. JULY. Aug	\{ 80 28 15 \\ 30 11 59 \\ 29 0 43 \\ \}	30 17 48 30 1 44 28 11 42
	Oct Nov Dec	30 11 1 28 23 45	$ \begin{cases} 1 & 1 & 47 \\ 80 & 18 & 55 \\ 29 & 10 & 25 \\ 28 & 23 & 44 \end{cases} $		SEPT OCT Nov DEC	27 13 27 27 2 11 25 14 55 25 .3 39	27 0 21 26 15 51 25 9 43 25 4 46

1	<del></del>			1			
Mean Vernal Equinox.	Month.	Mean .New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
		d. h. m.	d. h. m.			d. h. m.	d 7, m
B.C.	Т	23 16 23	,	B.C.	· •		d. h. m.
1610. F.	JAN FEB	23 10 25	28 28 28	1607. в.	JAN	20 7 33	20 · 2 · 11
April.	MAR.	23 17 52	22 16 25 24 6 43	April.	FEB.	18 20 17	18 14 39
d. h. m. 5 3 18	APRIL	22 6 36	22.18 6	d. h. m.	Mar.		20 4 8
0 0 10	MAY.	21 19 20	22 3 11	4 20 44	APRIL	18 21 46 18 10 30	18 18 35 18 9 48
	June .	20 8 4	20 10 54		May . June .	16 23 14	17 1 10
	JULY.	19 20 48	19 18 20			16 11 58	16 16 6
1	Aug.	18 9 32	18 2 28		JULY.	15 0 42	15 6 9
	SEPT	16 22 16	16 12 6		Aug	13 13 26	18 19 11
	Oct.	16 11 0	15 23 47		SEPT.	13 13 20	13 7 23
	Nov.	14 23 44	14 13 43		Oct.	11 14 54	11 18 55
	DEC.	14 12 28	14 5 42		Nov.	11 14 34	11 15 55
	DEC	TE TE 70	13 0 42		DEC	11 9 99	11 0 01
1609.	JAN	13 1 12	12 23 6	1606.	JAN. :	9 16 22	<b>9</b> 16:15
E.D.	FEB	11 13 56	11 16 53	΄Λ.	FEB	8 5 6	8′ 2 18
	MAR.,	12 2 40	12 9 56		MAR	9 17 50	9 12 28
4 9 7	APRIL	10 15 24	11 1 12	5 2 33	APRIL	8 6 34	7 23 25
	May .	10 4 8	10 14 12		MAY.	7 19 18	7 11 46
	June .	8 16 52	9 1 2		June .	6 8 2	6 1 47
	JULY.	8 5 36	8 10 21	;	July .	5 20 46	5 17 17
	Aug	6 18 20	6 19 3	1	Aug.	4 9 30	4 9 37
1:	SEPT	5 7 4	5 4 0	,	SEPT.	2 22 14	3 1 59
1	Ocr	4 19 48	4 13 50			{ 2 10 58	2 17 37
1	Nov	3 8 32	3 0 56	3	Ocr	{31 28 42	1180
	DEC	2 21 16	2 13 23		Nov.	80 12 26	(80 20 54
	. '	a v			DEC	30 1 10	80 8 15
1608. c.	JAN	$ \begin{cases} 1 & 10 & 0 \\ 30 & 22 & 44 \end{cases} $	1 3 12 30 18 14	1605.	JAN	28 13 54	28 18 10
	FEB	•••		G.F.	FEB	27 2 88	27 '3 1
:	MAR	( 1 11 29	1 10 9	*1	MAR	27 15 23	27 11 27
	MARK.	(31 0 13	81 2 18	4 8 22	APRIL	261417	25 20 17
4 14 56	APRIL	29 12 57	29 17 57		MAY.	25 16 51	25 6 82
	MAY .	29 1 41	29 8 21		June .	24 5 85	23 18 56
	June .	27 14 25	27 21 21		Jury .	28 18 19	28 9 48
	July .	27 -8. 9	27 8 53		Aug	22 7 3	22 2 42
	Ava	25 15 58	25 19 30		SEPT	20 19 47	20 20 41
	Sert	24 4 37	24 5 50	.,	Oct	20 8 31	20 14 32
	Ocr. 🕠	23 17 21	23 16 20	***	Nov.	18 21 15	19 7 8
	Nov. a	22 6 5	22 3 11		DEC.	18 9 59	18 21 39
	DEC	21 18 49	21 14 26				

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Moan New Moon,	True New Moon,
B.C. 1604,	JAN.,	d. h. m. 16 22 43	d. h. m. 17 9 46	B.C. 1601,	JAN	d. h. m.	d. h. m.
April. d. h. m. 4 14 11	FEB, . MAR APRIL	15 11 27 17 0 12 15 12 56	15 19 40 17 8 58 15 11 12	April. d. h. m. 4 7 87	MAR APRIL	13 2 88 13 15 22 12 4 6	18 11 57 14 8 81 12 16 18
	MAY . JUNE . JULY .	15 1 40 13 14 24 13 3 8	14 18 86 18 8 12 12 14 0		MAY . JUNE . JULY .	11 16 50 10 5 81 9 18 18	12 2 29 10 10 50 9 18 25
	Aug Sept Oct	11 15 52 10 4 36 9 17 20	11 8 40 9 20 18 9 14 49		Aug Sept Oct	8 7 2 6 19 46 6 8 80	8 2 15 6 11 14 5 21 58
	Nov. , Dec. ,	8 6 4 7 18 48	8 9 45 8 4 26		Nov Dec	4 21 14 4 9 58	4 19 46 4 1 41
1603.	JAN FEB MAR	6 7 32 4 20 16 6 9 0	6 20 32 5· 9 46 6 20 9	1600. a.	Jan Feb Mar	2 22 42 1 11 26 8 0 10	2 18 15 1 11 45 8 5 5
4 20 0	MAY . JUNE .	4 21 44 4 10 28 2 23 12	5 4 21 4 11 16 2 17 58	4 18 26	APRIL May .	$ \begin{cases} 1 & 1 & 38 \\ 1 & 1 & 38 \\ 80 & 14 & 22 \end{cases} $	1 21 18 1 11 22 30 28 20
	July .	$ \begin{cases} 2 & 11 & 56 \\ 1 & 0 & 40 \\ 30 & 13 & 24 \end{cases} $	$ \begin{cases} 2 & 1 & 86 \\ 81 & 11 & 12 \end{cases} $ 29 28 36	,	JUNK . JULY . Aug	29 8 6 28 15 50 27 4 84	29 9 80 28 18 86 27 8 84
	SEPT Oct Nov	29 2 8 28 14 52 27 3 36	28 15 5 28 9 11 27 4 41		SEPT Oct Nov	25 17 18 25 6 2 28 18 46	25 18 6 24 28 80 28 11 24
1602,	Jan	26 16 20 25 5 4	26 28 54 25 17 15	1599.	Drc	23 7 80 21 20 14	28 0 22 21 14 88
5 1 49	MAR. APRIL	23 17 48 25 6 33 28 19 17	24 7 44 25 19 10 24 4 2	4 19 15	FEB MAR APRIL	20 8 58 21 21 48 20 10 27	20 5 47 21 21 89 20 18 81
	June . July .	23 8 1 21 20 45 21 9 29	28 11 17 21 18 8 21 1 27		MAY . June . July .	19 28 11 18 11 55 18 0 89	20 <b>4 88</b> 18 18 29 18 6 54
	Aug Sept Oct	19 22 13 18 10 57 17 23 41	19 10 25 17 21 46 17 11 54		Aug Sept Oct	16 18 28 15 2 7 14 14 51	16 18 12 15 4 53 14 15 28
	Nov Dec	16 12 25 16 1 9	16 4 88 15 23 10		Nov Dec	18 8 85 12 16 19	18 2 12 12 18 11

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Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1598.	Jan.	d. h. m.	d. h. m.	B.C.	Т	d. h. m.	d. h. m.
E.	FEB.	9 17 47	9 12 16	A.	JAN	7,20 13	8 8 14
April.	Mar.	11 6 31	11 0 54	April.	HEB Mar	6, 8 57 7 21 41	6 19 5 8 3 54
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	APRIL	9 19 15	9 14 37	d. h. m. 4 18 30	APRIL	6 10 25	8 3 54 6 11 23
0 1 1	MAY.	9 7 59	9 5 21		MAY .	5 23 9	5 18 29
	June .	7.20 43	7 20 44	1.6	June .	4 11 53	4 2 17
	July.	7. 9 27	7 12 5		JULY.	4' 0 37	3 11 51
	Aug.	5.22 11	6 2 53		Aug.	2, 13 21	
	SEPT.	4.10.55	4 16 44		AUG.	1	$\begin{bmatrix} 2 & 0 & 6 \\ 31 & 15 & 20 \end{bmatrix}$
	Ocr.	3. 23 39	4 5 36		SEPT	$\begin{cases} 1 & 2 & 5 \\ 30 & 14 & 49 \end{cases}$	30 9 10
	Nov.	2 12 23	2 17 38		Ост.	30, 3 33	30 4 25
	2.0				Nov.	28, 16 17	28 23 31
	DEC	$\begin{cases} 2 & 1 & 7 \\ 31 & 13 & 51 \end{cases}$	2 4 55 31 15 30		DEC.	28, 5, 1	28 16 52
1597.	JAN.	30. 2 35	30 1 27	1594.	JAN.	26 17 45	27 7 33
D.C.	FEB	28.15 19	28 11 14	G.	FEB.	25 6 29	25 19 12
	MAR	29. 4 4	28 21 28		MAR.	26 19 14	27 4 18
4 6 53	APRIL	27 16 48	27 8 50	5 0 19	APRIL	25, 7 58	25 11 89
	MAY .	27, 5 32	26 21 51		MAY.	24, 20 42	24 18 18
	June .	25, 18 16	25 12 40		JUNE.	23, 9 26	28 1 21
1	July .	25. 7 0	25 4 50		July .	22 22 10	22 9 58
	Aug	28, 19 44	23 21 32		Aug	21 10 54	20 20 53
	SEPT	22 8 28	22 13 53		SEPT	19 23 38	19 10 54
	Oct	21, 21 12	22 5 12		Oct	19 12 22	19 3 52
	Nov	20 9 56	20 19 2		Nov	18 1 6	17 22 51
	Dec	19, 22, 40	20 7 9		DEC	17 13 50	17 18 28
1596.	JAN	18 11 24	18 17 39	1593.	JAN	16 2 34	16 12 47
в.	FEB	17, 0 8	17 · 2 48	F.E.	FEB	14 15 18	15 · 4 41
	MAR	18 12 53	18 11 7		MAR	15 4 3	15 17 38
4 12 41	APRIL	17 1 37	16 19 25	4 6 8	APRIL	13 16 47	14 8 83
	MAY .	16 14 21	16 4 42		MAY .	13, 5 31	18 11 20
	June .	15, 3 5	14 15 53		June .	11 18 15	11 18 25
	July.	14 15 49	14 5 32		JULY.	11 6 59	11 1 27
	Aug	13, 4 33	12 21 35		Aug	9 19 48	9 9 89
4 / <sub>104</sub>	SEPT.	11, 17, 17	11 15 22		SEPT	8 8 27	7 19 52
	Ост	11 6 1	11 9 40		Oct	7 21 11	7 8 38
	Nov	9 18 45	10 3 13		Nov	6 9 55	6 0 7
	DEC	. 9. 7 29	9 18 56	,	DEC	5 22 33	5 17 47
		,					

Mean		Mean	True	Mean		Menn	True
Vernal Equinox.	Month.	New Moon.	New Moon.	Vernal Equinox.	Month.	New Moon.	New Moon,
				Equinox.			
	• • •	d. h. m.	d. h. m.			d. h. m.	d. h. m.
B.C. 1592	Jan.	4.11.23	4 12 32	B.C. 1589.	JAN	( 2. 2 88	1 23 7
D,	FEB.	3 0 7	3 '6 56	A.G.		$\{81\ 15\ 17$	81 10 22
April.	MAR.	4 12 51	4 23 37	April	FEB	***	29 22 14
d. h. m.	APRIL	3 1 35	3 13 46	d. h. m.	Mar	1 4 1 80 16 45	30 11 7
	MAY .	2.14 19	3 1 12	4 5 23	APRIL	29. 5 20	20 1 10
	<u></u>	1 3 3	1 10 27		MAY.	28 48 13	28 16 14
	JUNE .	30 15 47	30 18 24		June .	27 6 57	27 7 47
0.1	July	30. 4 31	30 2 11		July .	26 19 41	26 23 7
1 1	Aug	28 17 15	28 10 41		Aug	25. 8 25	25 13 45
	SEPT	27 5 59	26 20 37		SEPT	23.21 9	21 8 25
	Ocr	26.18 43	26 8 25		Ост	23. 9 53	23 16 6
	Nov	25. 7 27	24 22 13		Nov	21 22 37	22 8 50
	DEC.	24.20 11	24 13 51		DEC.	21 11 21	21 14 48
1591.	Jan.	23. 8 55	23 6 45	1588.	JAN.	20.05	20 0 47
C,	FEB.	21,21 39	22 '0 3	F,	FEB.	18.12 49	18 10 22
	MAR	23.10 24	23 16 46	.	MAR.	20 1 84	19 20 2
4 17 45	APRIL	21 23 8	22 7 54	4 11 12	APRIL	18 14 18	18 6 29
	MAY .	21. 11. 52	21 21 2		May	18 8 2	17 18 29
	June	20 0 36	20 8 11		June .	16.15 4G	16 8 22
	July	19.13 20	19 17 55		JULY .	16 4 80	16 0 0
	Aug	18 2 4	18 3 6		Aug.	14.17 14	14 16 44
	SEPT	16 14 48	16 12 30		SEPT.	13 .5 58	13 9 88
	Ост.	16 3 32	15 22 39		Ocr	12 18 42	18 1 49
	Nov.	14 16 16	14 9 48		Nov	11. 7 26	11 16 87
	Dec	14 5 0	13 22 3		Dec	10.20 10	11 5 41
1590.	JAN.	12 17 44	12 11 24	1587.	Jan.	9, 8 54	9 16 55
В. 7	FEB	11. 6 28	11 1 50	E. ,	FEB.	7.21 88	8 2 32
	MAR	12 19 13	12 17 9		MAR.	9.10 22	9 10 58
4 23 34	APRIL	11. 7 57	11 8 56	4 17 1	APRIL	7 28 6	7 18 57
	MAY	10 20 41	<b>1</b> 1 0 26	1 , 1	MAY .	7.11.50	7 8 27
	JUNE	9 9 25	9 15 4	* .	June .	6 0 34	5 18 29
	Jura '	8 22 9	9 4 24		July .	5 18 18	5 1 49
-	AUG.	7 10 53	7 16 30		Aug. ,	4 2 2	8 16 47
	SEPT.	5 23 37	6 3 41	, ,	SEPT	2 14 46	2 9 59
	Nov.	5 12 21 4 1 5	5 14 30		Ост.	5 2 3 80	2 4 22
5. 5	Dec.	4 1 5 3 18 49	4 1 17			(81 16 14	81 22 40
		5 10 40	3 12 8	,	Nov.	80. 4 58	80 15 82
1	·	[			Dec	29 17 42	80 6 7

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Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
1586.	JAN	28 6 26	28 18 5	1583.	JAN	24 21 36	25 1 35
υ.	FEB	26 19 10	27 3 43	G.	FEB	23 10 20	23 19 7
April. d. h. m.	Mar	28 7 55	28 11 38	April. $d. h. m.$	MAR	24 23 5	25 10 33
4 22 49	APRIL	26 20 39	26 18 41	4 16 16	APRIL	23 11 49	23 23 18
	MAY .	26 9 23	26 1 55		MAY .	23 0 33	23 9 37
	June .	24 22 7	24 10 25		June .	21 13 17	21 18 12
	July .	24 10 51	23 21 16		JULY.	21 2 1	21 2 9
	Aug	22 23 35	22 11 5		Aug	19 14 45	19 10 23
	SEPT	21 12 19	21 3 48		SEPT	18 3 29	17 19 42
	Ост	21 1 3	20 22 38		Oct	17 16 13	17 6 38
	Nov	19 13 47	19 18 6		Nov	16 4 57	15 19 24
	DEC	19 2 31	19 12 33		DEC	15 17 41	<b>15 1</b> 0 0
1585.	JAN	17 15 15	18 4 36	1582.	JAN	14 6 25	14 2 6
C.B.	FEB	<b>1</b> 6 <b>3</b> 59	16 17 41	F.	FEB	12 19 9	12 19 4
	Mar	16 16 44	17 3 54		MAR	14 7 54	14 11 59
4 4 38	APRIL	15 5 28	15 11 55	4 22 5	APRIL	12 20 38	13 8 54
	MAY .	14 18 12	14 18 44		MAY.	12 9 22	12 18 5
	JUNE.	13 6 50	13 1 26		June .	10 22 6	11 6 18
	JULY .	12 19 40	12 9 9		July.	10 10 50	10 16 52
	Aug	11 8 24	10 18 54		Aug	8 23 34	9 2 23
	SEPT	9 21 8	9 7 28		SEPT	7 12 18	7 11 55
	Ост	9 9 52	8 23 3		Ост	7 1 2	6 21 50
	Nov	7 22 36	7 17 11		Nov.	5 13 46	5 8 33
	DEC	7 11 20	7 12 38		DEC	5 2 30	4 20 10
1584.	JAN	6 0 4	6 7 44	1581.	JAN	8 15 14	3 8 47
A.,	FEB	4 12 48	5 0 54	E.D.	FEB	2 3 58	1 22 21
	MAR	6 1 32	6 15 13		MAR	2 16 42	2 13 1
4 10 27	APRIL	4 14 16	5 2 31	4 8 54	APRIL		1 4 22 30 19 58
	MAY .	430	4 11 22	, ,	4 6 7	`	
	June .	2 15 44	2 18 41		MAY .	30 6 54	30 11 9
	JULY .	$\begin{cases} 2 & 4 & 28 \\ 31 & 17 & 12 \end{cases}$	2 1 39 31 9 17		JUNE.	28 19 98 28 8 22	29 1 20 28 14 16
	Aug	30 5 56	29 18 32		Aug.	23 21 6	27 2 8
	SEPT.	28 18 40	28 6 4		SEPT.	25 9 50	25 13 22
	Oct.	28 7 24	27 20 14		Oct.	24 22 34	25 0 19
	Nov.	26.20 8	26 12 49		Nov.	23 11 18	23 11 9
	DEC.	26 8 52	23 7 8		DEC.	28 0 2	22 21 59
	DEC	A0. 0.07					

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Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1580. c. April. d. h. m. 4 9 42	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT Oct Nov DEC	d. h. m. 21 12 46 20 1 30 21 14 15 20 2 59 19 15 43 18 4 27 17 17 11 16 5 55 14 18 39 14 7 23 12 20 7 12 8 51	d. h. m. 21, 8 52 19 20 5 21 8 8 19 21 21 19 11 51 18 8 15 17 18 56 16 10 14 15 0 48 14 14 9 18 2 31 12 18 50	B.C. 1577. G.F. April. d. h. m. 4 8 9	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	d. h. m. 19	d. h. m. 19 16 35 18 3 14 18 11 46 16 19 0 16 1 54 14 9 36 13 19 10 12 7 30 10 22 55 10 16 57 9 12 22 9 7 34
1579. B. 4 15 81	JAN. IFEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	10 21 85 9 10 19 10 23 4 9 11 48 9 0 82 7 18 16 7 2 0 5 14 44 4 8 28 8 16 12 2 4 56 { 1 17 40 81 6 24	11 0 11 9 9 45 10 19 2 9 4 44 8 15 41 7 4 30 6 19 21 5 11 46 4 4 57 3 21 58 2 18 39 2 3 45 81 15 52	1576. E. 4 8 58	Jan Feb Mar April May . June . July . Aug Sept Oct Nov Dec	7, 12 45 6 1 20 7 14 14 6 2 58 5 15 42 4 4 26 3 17 10 { 2 5 54 81 18 38 30 7 22 29 20 6 28 8 50 27 21 34	8 0 57 6 15 29 8 2 59 6 11 54 5 19 8 4 1 45 3 8 53 1 17 36 81 4 46 29 18 55 29 11 54 28 6 50 28 2 14
1578. A. 4 21 20	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	29 19 8 28 7 52 29 20 36 28 9 20 27 22 4 26 10 48 25 28 32 24 12 16 23 1 0 22 13 44 21 2 28 20 15 12	30 · 2 · 8 28 10 54 29 18 48 23 · 2 44 27 11 45 25 22 48 25 12 29 24 4 46 22 22 54 22 17 37 21 11 29 21 8 21	1575. D. 4 14 17	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	26 10 18 21 28 2 26 11 46 25 0 30 24 13 14 23 1 58 22 14 42 21 3 26 19 16 10 19 4 54 17 17 38 17 6 22	26 20 23 25 12 9 27 0 58 25 10 51 24 18 50 28 1 55 22 9 18 20 17 43 19 4 9 18 17 2 17 8 25 17 1 48

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1574. c. April. d. h. m. 4 20 35	JAN FEB MAR APRIL MAY . JUNE .	d. h. m. 15 19 6 14 7 50 15 20 85 14 9 19 18 22 8 12 10 47	d. h. m. 15 20 11 14 14 12 16 6 40 14 20 43 14 8 15 12 17 48	B.C. 1571. F. April. d. h. m. 4 14 2	JAN FEB MAR APRIL MAY . JUNE .	d. h. m. 12 10 16 10 23 0 12 11 45 11 0 29 10 13 13 9 1 57	d. h. m. 12 7 41 10 18 25 12 5 43 10 18 2 10 7 43 8 22 42
	July . Aug Sept Oct Nov Dec	11 23 31 10 12 15 9 0 59 8 13 43 7 2 27 6 15 11	12 2 1 10 10 11 8 19 4 8 5 17 6 17 8 6 6 45		July . Aug Seft Oct Nov Dec	8 14 41 7 3 25 5 16 9 5 4 53 3 17 37 3 6 21	8 14 27 7 6 15 5 21 29 5 11 44 4 0 51 3 12 44
1573. B.A.	JAN FEB MAR	5 3 55 3 16 39 4 5 23 2 18 7	4 21 57 3 14 18 4 7 6 2 23 27	15 <b>70.</b> E.	JAN	$ \begin{cases} 1 & 19 & 5 \\ 81 & 7 & 49 \end{cases} $ $ \int 1 & 20 & 33 $	1 23 30 31 9 15  1 18 21
# 22	MAY .  JUNE .  JULY .  AUG  SEPT  OCT  NOV  DEC	2 6 51 31 19 35 30 8 19 29 21 3 28 9 47 26 22 31 26 11 15 24 23 59 21 12 43	2 14 31 2 14 31 { 1 8 49 30 15 20 30 1 35 28 11 16 26 21 6 26 7 31 24 18 41 21 6 39	4 19 51	MAR  APRIL MAY. JUNE. JULY. AUG SEPT OCT Nov DEC	(81 9 17 29 22 1 29 10 45 27 23 29 27 12 18 26 0 57 21 18 41 24 2 25 22 15 9 22 8 58	81 8 29 29 18 30 29 1 11 27 15 0 27 6 51 25 28 57 24 17 28 21 10 5 28 1 14 22 14 22
1572. G. 4 8 13	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG	28 1 27 21 14 11 23 2 56 21 15 40 21 4 24 10 17 8 19 5 52 17 18 36	22 19 30 21 · 9 18 23 0 4 21 15 27 21 6 53 19 21 48 19 11 31 18 0 11	1569. D.C.	JAN FEB MAR APRIL MAY . JUNE . JULY .	20 16 87 19 5 21 19 18 6 18 6 50 17 19 84 16 8 18 15 21 2	21 1 27 19 10 44 19 18 49 18 2 26 17 10 88 15 20 20 15 8 49
	SEPT OCT Nov DEC	16 . 7 20 15 20 4 14 . 8 48 13 21 32	16 11 58 15 28 15 14 10 14 13 21 1		Aug Sept Oct Nov Dec	14 9 46 12 22 80 12 11 14 10 23 58 10 12 42	13 23 56 12 17 25 12 12 12 11 6 48 10 23 54

Mean Vernal	Month.	Mean New	True New	Mean Vernal	Month.	Mean New	True New
Equinox.		Moon.	Moon.	Equinox.	•	Moon.	Moon.
B.C. 1568.	T	d. h. m. 9 1 26	d. h. m. 9 14 28	B.C.	_	d. h. m.	d. h. m.
B.	Jan	1		1565. F.E.	JAN	6 16 36	6 14 51
April.	FEB	7 14 10	8 2 18	April.	FEB.	5 5 20	5 8 59
d. h. m. 4 7 28	MAR APRIL	9 2 55 7 15 39	9 11 40	d. h. m.	MAR	5 18 5	6 2 13
4 1 20	MAY .	7 4 23	7 19 18 7 2 8	4 0 55	APRIL	4 6 49	4 17 26
	JUNE .	5 17 7			MAY .	3 19 33	4 6 14
		5 5 51	5 9 15	,	JUNE.	2 8 17	2 16 46
	JULY .	3 18 35	4 17 46 3 4 42		JULY .	$\begin{cases} 1 & 21 & 1 \\ 31 & 9 & 45 \end{cases}$	2 1 41 31 10 1
	SEPT.	2 7 19	1 18 38		Aug	29 22 29	20 18 80
	~~	(120 3	1 11 31		SEPT.	28 11 13	28 4 18
	Oct	31 8 47	31 6 32	}	Oct.	27 28 57	27 15 24
	Nov.	29 21 31	30 2 7		Nov.	26 12 41	26 4 4
	DEC	20 10 15	29 20 33		DEC.	26 1 25	25 18 19
4-5-							
1567.	JAN.	27 22 59	23 12 33	1564.	JAN	24 14 9	21 9 53
	FEB	26 11 43	27 1 27	D.	FEB.	23 2 53	23 2 16
	MAR.	28 0 27	28 11 29		MAR.	21 15 37	21 18 45
4 13 17	APRIL	26 13 11	26 19 23	4 6 44	APRIL	23 4 21	2 <b>3 10 2</b> 9
	MAY.	26 1 55	26 2 9		MAY .	22 17 5	23 0 45
	JUNE .	2f 14 39	24 8 56		June.	21 5 49	21 13 17
	JULY.	24 3 23	23 16 49		July .	20 18 33	21 0 19
	Aug.	22 16 7	22 2 46		Aug	19 . 7 17	19 10 27
	SEPT.	21 4 51	20 15 29		SEPT	17 20 1	17 20 24
	Ост	20 17 35	20 7 8		Ocr	17 8 45	<b>17</b> 6 <b>3</b> 9
	Nov.	19 6 19	19 1 14		Nov	<b>15 21 2</b> 9	15 17 28
	DEC.	18 19 3	18 20 31		DEC	15 10 13	15 4 57
1566. 6.	JAN	17 7 47	17 15 22	1563.	JAN	18 22 57	13 17 7
۵.	FEB.	15 20 31	16 8 21	C.	FEB	12 11 41	12 6 9
1	MAR.	17 9 16	17 22 32		Mar	14 0 26	13 20 9
4 19 6		15 22 0	16 9 47	4 12 33	APRIL	12 13 10	12 11 3
	MAY.	15 10 44	15 18 40		MAY.	12 1 54	12 2 26
	JUNE.	13 23 28	14 2 9		June .	10 14 39	10 17 41
	JULY.	13 12 12	13 9 21		JULY.	10 3 22	10 8 14
	Aug.	12 0 56	11 17 17		Aug	8 16 6	8 21 44
	SEPT.	10 13 40	10 2 49		SEPT	7 4 50	7 10 18
	Oct.	10 2 21	9 14 32		Ост.	6 17 34	6 21 58
	Nov	8 15 8	8 4 40	01.11	Nov.	5. 6 18	5 9 14
	DEC	8 3 52	7 21 1	٠.	DEC.	4 19 2	4 20 7
!	1	1					

Mean Vernal Equinox.	Month.	Menn New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1562.	JAN.	d. h. m. 3 7 46	d. h. m. 3 6 44	B.C. 1559.	JAN	d. h. m. 29.11 40	d. h. m.
в.	FEB	1,20 30	1 17 9	E.	FEB.	28 0 24	28 11 14
April. $d. h. m.$	Mar.	3. 9 15	3 3 50	April. d. h. m.	Man	29 13 9	29 19 30
4 18 21	APRIL	<b>1 21 5</b> 9	1 15 17	4 11 48	APRIL	23 1 53	28 2 30
		( 1.10 43	1 4 4		MAY .	27 14 37	27 9 17
	May .	80 23 27	30 18 19		June.	26 3 21	25 16 58
	June .	29 12 11	29 9 49		July .	25 16 5	25 2 38
.	July.	29. 0 55	29 1 51		Aug	21 .4 49	<b>23 15</b> 6
	Aug	27. 13 39	27 17 43		SEPT	22 17 33	22 6 39
	SEPT	26, 2 23	26 8 49		Oct	22.617	22 0 50
	Oct.	25.15 7	25 22 44		Nov	20,19 1	20 20 21
	Nov.	24, 3 51	21 11 22		DEC	20. 7 45	20 15 33
	DEC	23 16 35	23 22 41				
,				1558.	JAN	18 20 29	19 8 51
1561.	JAN	22, 5 19	22 8 46	. D.	FEB	17. 9 13	17 23 15
A.G.	FEB	20 18 3	20 17 55		Mar	18 21 57	19 10 35
	MAR	21 6 47	21 2 41	4 17 37	APRIL	17.10 41	17 19 22
4 0 10	APRIL	19. 19 31	19 11 56		MAY .	16 23 25	17 2 33
	May .	19 8 15	18 22 32		June .	15.12 9	15 9 14
	JUNE .	17. 20 59	17 11 11		July .	15 0 58	14 16 31
	JULY .	179 43	17 2 6		Aug.	13 13 37	13 1 27
,	Aug.	15 22 27	15 18 49		SEPT	12. 2 21	11 12 48
	SEPT	14 11 11	14 12 29		Oct	11, 15 5	11 3 2
	Ocr	13 23 55	14 5 55		Nov.	10, 3 49	9 20 1
	Nov	12, 12, 39	12 22 8		Dec	9 16 33	9 14 47
	DEC	12 1 23	12 12 22	1557.	JAN.	8. 5, 17	8 9 56
1560.	JAN.	10 14 7	11 0 23	C.B.	FEB	6 18 1	7 3 54
F.	FEB	9. 2 51	9 10 27		MAR.	7 6 46	7 19 27
,	MAR.	10 15 36	10 18 51	3 23 25	APRIL.	5 19 30	6 8 7
4 5 59	APRIL	9 4 20	9 2 21		MAY .	5. 8 14	5 18 5
	MAY .		8 10 2		JUNE .	3, 20 58	4 2 11
	June .	7. 5.48	6 18 52		JULY .	3 9 42	3 9 32
1.	July .	6 18 32	6 5 51	1	1	( 1 22 20	
	Aug.		4 19 37		Aug.	81 11 10	81 1 57
	SEPT.	1	3 12 8		SEPT	20 23 54	29 12 37
	Oct.	9 9 44	8 6 35	1	Oct	29 12 35	29 1 33
	Nov.	1	l		Nov.	28 1 22	27 16 46
	DEC.	$ \begin{cases} 1 & 10 & 12 \\ 30 & 22 & 50 \end{cases} $	1 19 45		Dec.	27, 14	27 9 48

1556.   Jan.   26. 2 50   26. 8 42   19	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
JULY. 22. 7 14 22 9 48  AUG. 20.19 58 20 18 19  SEPT. 19 8 42 19 8 35 OCT. 18.21 26 18 14 2 Nov. 17.10 10 17 1 53 DEC. 16.22 54 16 15 18  1555.  JAN. 15.11 38 15 5 56 G. Fell 14. 0 22 18 21 42 MAR. 15.18 7 15 14 0  4 11 3 APRIL 14 1 51 14 6 4 4 4 29 APRIL 10 17 1 10 10 52 MAY. 13 14 35 13 21 7 JULY. 11. 16 8 11 22 85 AUG. 10 4 47 10 9 21 SEPT. 8 17 31 8 19 35 OCT. 8 6 15 8 5 50 Nov. 6 18 59 6 16 27 DEC. 6 7 48 6 8 38  1554.  JAN. 4 20 27 4 15 12 FEL. 8 9 11 8 3 30 MAR. 4 21 56 4 16 43 APRIL 3 10 40 8 6 54 MAY. 2 28 24 2 21 58 JULY. 1 12 8 118 21 JULY. 1 12 8 18 21 JULY. 1 12 8 18 20  AUG. 1 0 4 47 10 9 21 SEPT. 8 17 31 8 19 35 OCT. 8 6 15 8 5 50 DEC. 6 7 48 6 8 38  IS54.  JAN. 4 20 27 4 15 12 FEL. 8 9 11 8 3 30 MAR. 4 21 56 4 16 43 APRIL 3 10 40 8 6 54 MAY. 2 28 24 2 21 58 JULY. 1 12 8 18 21 JULY. 1 12 8 18 21 JULY. 2 18 4 10 18 APRIL 3 10 40 8 6 54 MAY. 2 28 24 2 21 58 JULY. 2 18 21 11 AUG. 17 11 8 2 24 17 11 8 28 JULY. 18 7 17 10 20 AUG. 10 14 9 35 DEC. 13.14 4 13 21 40 AUG. 10 15 45 9 20 81 JULY. 8 7 18 7 19 OCT. 4 21 25 5 1 14 Nov. 8 18 20 8 7 59 JULY. 8 7 18 7 21 47 AUG. 6 19 57 6 18 47 SEPT. 5 8 41 5 7 19 OCT. 4 21 25 5 1 14 Nov. 8 10 9 8 18 28 DEC. 2 22 58 8 9 48  I554.  FEL. 3 9 11 8 3 30  MAR. 4 21 56 4 16 43 APRIL 3 10 40 8 6 54 MAY. 2 28 24 2 21 58 JULY. 8 7 18 21  JULY. 8 7 18 10 10 10 10 10 10 10 10 10 10 10 10 10	1556. A. April. d. h. m.	FEB MAR APRIL MAY .	26. 2 50 24. 15 34 26. 4 18 24. 17. 2 24. 5 46	26. 3 42 24 21 19 26 13 32 25 3 33 24 15 14	1553. E.D. April. d. h. m.	FEB MAR APRIL MAY .	23.18 0 22. 6 44 22.19 28 21 8 12 20 20 56	22 2 28 22 13 5 21 0 54 20 14 17
G. Feb. 14 0 22 18 21 42   MAR. 15 18 7 15 14 0   APRIL 14 1 51 14 6 4   MAY . 13 14 35 18 21 7   JUNE . 12 3 19 12 10 39   JULY . 11 16 8 11 22 35   AUG 10 4 47 10 9 21   SEPT 8 17 31 8 19 35   OCT 8 6 15 8 5 50   Nov 6 18 59 6 16 27   DEC 6 7 43 6 3 33    1554. F. Feb 3 9 11 3 3 30   MAR 4 21 56 4 16 43   APRIL 3 10 40 8 6 54   MAY . 2 28 24 2 21 58   JUNE . 1 12 8 1 13 21    4 16 52    MAR 4 20 27 4 15 12   Feb 3 9 11 3 3 30   MAR 4 21 56 4 16 43   APRIL 3 10 40 8 6 54   MAY . 2 28 24 2 21 58   JUNE . 1 12 8 1 13 21    JULY . {1.0 52		JULY . AUG SEPT OCT Nov	22. 7 14 20. 19 58 19 .8 42 18. 21 26 17. 10 10	22 9 43 20 18 19 19 8 35 18 14 2 17 1 58		July . Aug Sept Oct Nov	18 22 24 17 11 8 15 28 52 15 12 36 14 1 20	18 21 11 17 13 28 16 5 18 15 20 7
MAY . 13 14 35 13 21 7  JUNE . 12 3 19  JULY . 11 16 3 11 22 35  AUG 10 4 47 10 9 21  SEPT 8 17 31 8 19 85  OCT 8 6 15 8 5 50  Nov 6 18 59 6 16 27  DEC 6 7 48 6 3 38  1554.  F. FEB 3 9 11 3 3 30  MAR 4 20 27 4 15 12  FEB 3 9 11 3 3 30  MAR 4 21 56 4 16 48  APRIL 3 10 40 3 6 54  MAY . 2 28 24 2 21 58  JULY . 8 7 18 7 21 47  AUG 6 19 57 6 13 47  SEPT 5 8 41 5 7 19  OCT 4 21 25 5 1 14  Nov 3 10 9 3 18 28  DEC 2 22 53 3 9 48  1554.  FEB 3 9 11 3 3 30  MAR 4 21 56 4 16 48  APRIL 3 10 40 3 6 54  MAY . 2 28 24 2 21 58  JUNE . 1 12 8 1 13 21  JULY . \$\begin{array}{c} 1 13 6 3 1 18 50 \\ 31 1 20 \\ 30 18 36	G.	FEB.	14. 0 22 15.13 7	13 21 42 15 14 0	с.	Feb Mar	10. 15 82 12 4 17	10 17 23 12 2 13
F. Feb 3 9 11 3 3 30 MAR 4 21 56 4 16 43 APRIL 3 10 40 3 6 54 MAY . 2 23 24 2 21 58 JUNE . 1 12 8 1 13 21 JULY . \{ 1 0 52 30 13 36 30 18 43 AUG 29 2 20 29 8 1 Sept 27 15 4 27 20 24 Oct 27 3 48 27 8 4 Nov 25 16 32 25 19 13 Sept 23 18 58 23 20 6	# 11 O	MAY . JUNE . JULY . AUG SEPT OCT Nov	13 14 35 12 3 19 11 16 3 10 4 47 8 17 31 8 6 15 6 18 59	13 21 7 12 10 39 11 22 35 10 9 21 8 19 35 8 5 50 6 16 27	4 4 29	MAY . JUNE . JULY . AUG SEPT OCT Nov	10. 5 45 8 18 29 8 7 13 6 19 57 5 8 41 4 21 25 3 10 9	8 7 59 7 21 47 6 18 47 5 7 19 5 1 14 8 18 28
July .          \begin{pmatrix}             1 & 0.52 & 1 & 4.27 & 20.24 & 20.25 & 16.32 & 25.16.32 & 25.19.13             \end{pmatrix}          4 10.18 & April & 29.14.34 & 29.9.51 & 29.51 & 30.18.48 & 29.0.51 & 30.18.48 & 29.0.51 & 30.18.48 & 29.0.51 & 30.18.48 & 29.0.51 & 30.18.48 & 29.0.51 & 30.18.48 & 29.0.51 & 30.18.48 & 29.0.51 & 30.18.48 & 29.0.51 & 30.18.48 & 27.16.2	F.	FEB MAR APRIL MAY .	3 9 11 4 21 56 3 10 40 2 23 24	3 3 30 4 16 43 3 6 54 2 21 58	В.	FEB.	(118 6	 1 18 50
DEC. 25. 5 16 25 5 58 Nov. 22 7 42 22 14 58		JULY . AUG SEPT OCT	\$\begin{cases} 1 & 0 & 52 \\ 30 & 13 & 36 \\ 29 & 2 & 20 \\ 27 & 15 & 4 \\ 27 & 3 & 48 \end{cases}\$	1 4 27 30 18 43 29 8 1 27 20 24 27 8 4 25 19 13		MAY . JUNE . JULY . AUG SEPT OCT	29 3 18 27 16 2 27 4 46 25 17 30 24 6 14 23 18 58	28 17 50 27 8 86 26 15 57 25 7 14 24 1 0 28 20 6

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1550. A. April. d. h. m.	JAN FEB MAR	d. h. m. 20 9 10 18 21 54 20 10 38	d. h. m. 20 22 42 19 10 20 20 19 26	B.C. 1547. D. April. d. h. m.	JAN FEB MAR	d. h. m. 17 0 20 15 13 4 17 1 48	d. h. m. 16 22 83 15 16 15 17 9 7
4 16 7	APRIL MAY . JUNE . JULY .	18 23 22 18 12 6 17 0 50 16 13 31	19 2 51 18 9 32 16 16 38 16 1 14	4 9 31	APRIL MAY . JUNE . JULY .	15 14 82 15 8 16 13 16 0 13 4 44	16 0 14 15 13 6 13 23 53 13 9 12
	Aug Sept Oct Nov Dec	15 2 18 13 15 2 13 3 46 11 16 30 11 5 14	14 12 16 13 2 22 12 19 26 11 14 80 11 10 4		Aug Sept Oct Nov Dec	11 17 28 10 6 12 9 18 56 8 7 40 7 20 24	11 17 58 10 3 2 9 13 1 8 0 13 7 12 43
1549. G.F.	JAN FEB MAR	9 17 58 8 6 42 8 19 27	10 4 26 8 20 17 9 9 4	1546. c. 4 15 22	JAN FEB MAR	6 9 8 4 21 52 6 10 37 4 23 21	6 2 32 4 17 32 6 9 22 5 1 27
3 21 56	APRIL MAY. JUNE. JULY. AUG	7 8 11 6 20 55 5 9 39 4 22 23 3 11 7	7 18 58 7 2 48 5 9 38 4 16 33 3 0 39	4 13 22	APRIL MAY . JUNE . JULY . AUG	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4 17 0 3 7 24 2 20 19 1 7 52
	SEPT OCT Nov DEC	1 23 51 { 1 12 35 { 31 1 19 29 14 3 29 .2 47	$ \begin{cases} 1 & 10 & 48 \\ 30 & 23 & 40 \end{cases} $ $ 30 & 15 & 21 \\ 29 & 9 & 18 \\ 20 & 4 & 20 \end{cases} $		SEPT OCT Nov DEC	29 3 45 28 16 29 27 5 13 26 17 57	28 15 83 27 2 26
1548. E.	JAN FEB MAR	27 15 31 26 4 15 27 17 0	27 22 54 26 15 39 28 5 44	1545. B.A.	JAN FEB MAR	25 .6 41 23 19 25 24 8 9	28 18 47 24 8 11
4 8 45	APRIL MAY . JUNE . JULY . AUG SEPT OCT	26 5 44 25 18 28 24 7 12 23 19 56 22 8 40 20 21 24 20 10 8	26 16 57 26 1 56 24 9 89 23 17 10 22 1 25 20 11 15 19 23 6 18 13 9	8 21 11	APRIL MAY . JUNE . JULY . AUG SEPT OCT, . Nov	22 20 58 22 9 37 20 22 21 20 11 5 18 23 49 17 12 38 17 1 17 15 14 1	22 8 51 21 0 15 20 15 12 19 5 17 3 17 18 24 7 17 6 83
	Nov Dec	18 22 52 18 11 36	18 13 9 18 5 11		DEC.	15 .2 45	

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1544. c. April. d. h. m. 4 3 0	JAN FEB MAR APRIL MAY . JULY . AUG SEPT OCT Nov DEC	d. h. m.  13 15 29  12 4 13  13 16 58  12 5 42  11 18 26  10 7 10  9 19 54  8 8 38  6 21 22  6 10 6  4 22 50  4 11 34	d. h. m.  13 15 21  12 1 19  13 11 25  11 22 22  11 10 44  10 0 50  9 16 27  8 8 54  7 1 19  6 16 59  5 7 22  4 20 12	B.C. 1541. p.c. April. d. h. m. 3 20 27	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	d. h. m.  11 6 39 9 19 23 10 8 8 8 20 52 8 9 36 6 22 20 6 11 4 4 23 48 3 12 32 3 1 16 1 14 0 { 1 2 44 30 15 28	d. h. m. 11 19 51 10 8 52 10 19 4 9 8 6 8 9 57 6 16 42 6 0 26 4 10 12 2 22 50 2 14 31 1 8 46 1 4 18 80 23 25
1543. F. 4 849	JAN FEB MAR APRIL MAY .	3 0 18 1 13 2 3 1 47 1 14 31 \$\begin{cases} 1 & 3 15 & 59 & 15 & 59 \end{cases}\$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1540. B. 4 2 15	JAN FEB MAR APRIL MAY .	29 4 12 27 16 56 29 5 41 27 18 25 27 7 9	29 16 35 29 6 50 29 18 4 28 2 46 27 9 59
7.	JUNE . JULY . AUG . SEPT . OCT . Nov . DEC .	23 20 23	28 17 59 28 9 1 27 2 3 25 20 9 25 14 3 24 6 35 23 20 58		JUNE. JULY. AUG. SEPT. OCT. NOV. DEC.	25 19 58 25 8 87 28 21 21 22 10 5 21 22 49 20 11 88 20 .0 17	25 16 48 25 0 17 28 9 27 21 21 0 21 11 19 20 4 11 19 22 48
1542. E.	JAN FEB MAR	20 10 35 21 23 19	22 8 53 20 18 36 22 2 40	1539. A.	JAN FEB MAR	18 18 11 17 .1 45 18 14 29	18 17 34 17 11 14 19 2 36
THE DO	MAY . JUNE . JULY . AUG SEPT.	20 0 47 18 13 31 18 2 15 16 14 59 15 3 43	16 2 53 14 19 37	484	APRIL MAY . JUNE . JULY . AUG SEPT	17 8 18 16 15 57 15 4 41 14 17 25 18 6 9 11 18 58	17 15 12 17 1 15 15 9 84 14 17 11 13 1 10 11 10 18
	Ocr. Nov. DEC.	. 13 .5 11	13 9 40		Nov Dec	11 7 87 9 20 21 9 .9 5	10 21 11 9 10 8 9 1 6

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1538.	Jan	d. h. m. 7 21 49	d. h. m.	B.C. 1535. c.	JAN	d. h. m. 4 12 59	d. h. m. 4 14 37.
April. d. h. m.	FEB MAR	6 10 33 7 23 18	6 11 7 8 4 20	April.	FEB MAR	3 1 43 4 14 28	3 0 30 4 10 13
4 13 58	APRIL MAY.	6 12 2 6 0 46	6 20 19 6 10 20	4 7 20	MAY .	3 8 12 2 15 56	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	JUNE. JULY.	4 13 30 4 2 14 2 14 58	4 22 13 4 8 21 2 17 30		JUNE.	1 4 40 30 17 24 30 6 8	30 11 49 30 4 4
·	Aug	$ \begin{cases} 1 & 3 & 42 \\ 30 & 16 & 26 \end{cases} $	1 2 34 30 12 15	\$	Aug	28 18 52 27 7 36	28 20 51 27 13 16
	Oct	30 5 10 28 17 54	29 22 53 23 10 41		Oct	26 20 20 25 9 4	27 4 35 25 18 22
	DEC	28 6 38	27 23 41		DEC.	21 21 48	25 6 23
1537. F.E.	JAN. • FEB	26 19 22 25 8 6	26 13 50 25 5 1	1534. B.	JAN FEB	23 10 32 21 23 16	23 16 44 22 1 43
3 19 42	MAR	25 20 51	25 20 48 21 12 35	4 13 8	Mar	23 12 1 22 0 45	23 9 57 21 18 13
	MAY . June .	23 22 19 22 11 3	24 3 40 22 17 29		MAY . June .	21 18 29 20 2 18	21 3 33 19 14 50
	JULY .	21 23 47 20 12 31	22 5 55 20 17 15		Aug.	19 14 57 18 3 41 16 16 25	19 4 40 17 20 54 16 14 49
	OCT	19 1 15 18 13 59 17 2 43	19 4 1 18 14 40 17 1 26		Sert. Oct. Nov	16 5 9 14 17 58	16 9 11 15 2 42
•	Nov Dec	16 15 27	16 12 25	:	DEC.	14 6 87	14 18 19
153 <b>6.</b> v.	JAN FEB	15 4 11 13 16 55	14 23 30 13 11 21	1533. A.G.	JAN Feb	12 19 21 1i 8 5	13 7 27 11 18 6
4 1 31	MAR APRIL	15 5 39 13 18 23	14 23 59 13 13 39	3 18 57	Mar April	11 20 49 10 9 83	10 10 8
	MAY. June.	13 7 7 11 19 51	18 4 25 11 19 48		MAY . JUNE .	9 22 17 8 11 1	
	Aug	11 8 35 9 21 19	11 11 14 10 2 3		Aug.	7 23 45 6 12 29	5 23 14
	SEPT	8 10 8 7 22 47	8 15 57 8 4 52		Oct.	5 1 13 4 13 57 8 2 41	4 8 41
i.	Nov Dec	6 11 31 6 0 15	6 16 55		Nov.	2 15 25	2 28 4
<u> </u>	1	1	1	ll .		1 3	· .

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox,	Month.	Mean New Moon.	True New Moon.
		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
B.C. 1532.	Jan.,	$\begin{cases} 1 & 4 & 9 \\ 30 & 16 & 53 \end{cases}$	1 16 18	1529.	JAN	28 8 3	28 6 8
F.		(90 10 99	31 . 6 44	C.B. April.	FEB	26 20 47	26 23 21
	FEB			d. h. m.	MAR	27 9 32	27 15 54
April.	MAR.,	$\begin{bmatrix} 1 & 5 & 38 \\ 30 & 18 & 22 \end{bmatrix}$	1 18 13   31 3 7	3 18 13	APRIL	25 22 16	26 6 55
d. h. m.		,			MAY.	25 11 0	25 19 57
4 0 46	APRIL	29 7 6	29 10 23		JUNE .	23 23 44	24 7 3
	MAY.	28 19 50	28 16 59		JULY.	23 12 28	23 16 49
	JUNE .	27 8 34	27 0 6		Aug	22 1 12	22 2 5
	JULY.	26 21 18	26 8 49		Sept	20 13 56	20 11 36
	Aug	25 10 2	24 20 1		Ост	20 2 40	19 21 52
	SEPT.	23 22 46	23 10 17		Nov	18 15 24	18 9 5
	Oct.	23 11 30	23 3 24		DEC	18 4 8	17 21 21
	Nov.	22 0 14	21 22 29	1528.	Jan	16 16 52	16 10 41
	DEC	21 12 58	21 17 59	A.	FEB.	15 -5 36	15 1 4
1531.	JAN	20 1 42	20 12 11		MAR.	16 18 20	16 16 20
E.	FEB.	18 14 26	19 3 54	4 0 1	APRIL	15 7 4	15 8 1
	MAR	20 3 10	20 16 31		MAY.	14 19 48	14 23 29
4 6 35	APRIL	18 15 54	19 2 20		June .	13 8 32	13 14 5
	MAY.	18 4 38	18 10 10		JULY.	12 21 16	13 14 3
	June.	16 17 22	16 17 5		Aug	11 10 0	11 15 82
	JULY.	16 6 6	16 0 14		SEPT.	9 22 44	10 2 48
	Aug	14 18 50	14 8 35	1 .	Ост	9 11 28	9 13 41
	SEPT	13 7 34	12 18 59		Nov	8 .0 12	8 0 80
	Ост.	12 20 18	12 7 59		DEC	7 12 56	7 11 20
	Nov. ,	11 9 2	10 23 35		DEC	. 12 00	1 11 20
	DEC	10 21 46	10 17 19	1527.	JAN	6 1 40	5 22 17
1530.	JAN.	9 10 30	9 12 2	G. ·	FEB	4 14 24	4 9 29
D,	FEB.	7 23 14	8 6 17		MAR	6.89	5 21 18
	MAR	9 11 59	9 22 49	4 5 50	APRIL	4 15 58	4 10 8
4 12 24		8 0 43	8 12 45		MAY .	4 4 37	4 0 12
	MAY .	7 13 27	8 0 2		June.	2 17 21	2 15 18
	JUNE.	6 2 11	6 9 12		July.		2 6 53
	JULY.	5 14 55	5 17 11		JULI .	Si 18 49	31 22 18
	Aug.		4 1 4		Aug	30 7 33	30 12 58
	SEPT.		2 9 42		Sept	28 20 17	29 2 41
	Oct	(2 5 7	1 19 48		Ост	28 9 1	28 15 22
		(01.11. 01	31 7 44		Nov	26 21 45	27 8 6
	Nov.		29 21 38		Dec	26 10 29	26 13 58
	DEC.	29 19 19	29 13 18				;

1526.   Jan.   24 28 18   24 28 52   1523.   Jan.   21 14 28   22 8 April   A. h. m.   April   A. h. m.   April   A. h. m.   April   A. h. m.   April   April   Aug.   19 16 22   19 16 2   Aug.   16 7 82   15 17	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
Aug. 19 16 22 19 16 2 Sept. 18 5 6 18 9 2 Oct. 17 17 50 18 1 15 Nov. 16 6 34 16 16 1 Dec. 15 19 18 16 4 57  1525. E.D. Feb. 12 20 46 18 1 31 Mar. 18 9 32 18 9 52 Aug. 11 11 0 11 2 17 June 9 28 44 9 12 24 July 9 12 28 9 0 54 Aug. 8 1 12 7 16 4 Sept. 6 18 56 6 9 25 Oct. 6 2 40 6 8 56 Nov. 4 15 24 4 22 14 Dec. 6 18 56 6 9 25 C. Feb. 1 5 96 1 17 18 Mar. 2 18 19 8 2 33 3 23 17  April { 1 7 3 1 10 25 8 56 8 9 25 } May 8 8 8 1 80 0 87 June 1 28 9 59 27 20 18 Aug. 26 22 48 26 10 20 Sept. 25 11 27 25 3 16 Oct. 25 0 11 24 22 18 Oct. 25 11 27 25 3 16 Oct. 25 0 11 24 22 18 Oct. 25 11 57 Oct. 25 0 11 24 22 18	1526. F. April. d. h. m.	FEB MAR APRIL MAY . JUNE .	24 28 18 28 11 57 25 0 42 28 18 26 28 2 10 21 14 54	24 23 52 23 9 21 24 18 56 23 5 24 22 17 26 21 7 27	1523. B. April. d. h. m.	FEB MAR APRIL MAY . JUNE .	21 14 28 20 3 7 21 15 52 20 4 36 19 17 20 18 6 4	20 16 45 22 2 46 20 10 38 19 17 25 18 0 9
E.D.   Feb.   12 20 46   18 1 81     A.   Feb.   9 11 56   10 0   Mar.   11 0 40   11 14   Mar.   11 11 0   11 2 17   May   9 12 28   9 0 54   June   9 12 28   9 0 54   July   7 8 86   7 0   Aug.   8 1 12   7 16   4   Sept.   6 18 56   6 9 25   Sept.   6 18 56   6 9 25   Nov.   4 15 24   4 22 14   Dec.   4 4 8   4 15 1   Mar.   2 18 19   8 2 33   G.F.   Feb.   28 9 23   28 18   Mar.   2 18 19   8 2 33   G.F.   Feb.   28 2 2 18   29 9   May   26 28 41   27 8   June   28 21 15   28 9 16   June   28 21 15   28 9 16   July   28 9 59   27 20 18   Aug.   26 22 48   26 10 20   Sept.   25 11 27   25 8 16   Oct.   25 0 11   24 22 18   Oct.   21 15 21   21 5		Aug Sept Oct Nov	19 16 22 18 5 6 17 17 50 16 6 34	19 16 2 18 9 2 18 1 15 16 16 1		Aug Sept Oct Nov	16 7 32 14 20 16 14 9 0 12 21 44	15 17 58
MAY . 11 11 0 11 2 17  JUNE . 9 28 44 9 12 24  AUG 8 1 12 7 16 4  SEPT 6 18 56 6 9 25  OCT 6 2 40 6 8 56  Nov 4 15 24 4 22 14  DEC 4 4 8 4 15 1  MAR 2 16 52 8 5 26  FEB 1 5 36 1 17 18  MAR 2 18 19 8 2 33  MAR 2 18 19 8 2 33  MAR 2 18 19 8 2 33  MAY . 30 8 31 30 0 37  JUNE . 28 21 15 28 9 16  JUNE . 28 24 3 26 10 20  SEPT 25 11 27 25 3 16  OCT 25 0 11 24 22 18  MAY . 9 2 8 9 10  JUNE . 7 14 52 7 17  JULY . 7 8 36 7 0  AUG 5 16 20 5 8  SEPT 4 5 4 3 17  OCT 3 17 48 3 5  Nov 2 6 32 1 19  DEC {1 19 16 1 12}  31 10 25  MAR 29 20 44 80 1  FEB 28 9 23 28 18  MAR 28 22 18 29 9  APRIL 27 10 57 27 22  MAY . 26 28 41 27 8  JUNE . 25 12 25 25 17  JULY . 28 9 59 27 20 18  AUG 26 22 48 26 10 20  SEPT 25 11 27 25 3 16  OCT 25 0 11 24 22 18	E.D.	FEB	12 20 46	13 1 31	ì	FEB	9 11 56	10 0 11
C. Feb 1 5 86 1 17 18 1521. G.F. Feb 28 9 23 28 18 Mar 2 18 19 8 2 83 Mar 28 22 13 29 9 May . 30 8 81 30 0 87 June . 28 21 15 28 9 16 July . 28 9 59 27 20 18 Aug 26 22 48 26 10 20 Sept 25 11 27 25 3 16 Oct 25 0 11 24 22 13 Day		MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	11 11 0 9 28 44 9 12 28 8 1 12 6 18 56 6 2 40 4 15 24 4 4 8	11 2 17 9 12 24 9 0 54 7 16 4 6 9 25 6 3 56 4 22 14 4 15 1	4 10 54	MAY . JUNE . JULY . AUG SEPT OCT Nov	9 2 8 7 14 52 7 8 36 5 16 20 4 5 4 3 17 48 2 6 32 1 19 16	9 10 7 7 17 24 7 0 24 5 8 11 3 17 36 3 5 20 1 19 40 1 12 22
MAY . 30 19 47 30 17 28 3 16 48 APRIL 27 10 57 27 22  MAY . 30 8 31 30 0 37  JUNE . 28 21 15 28 9 16  JULY . 28 9 59 27 20 18  AUG 26 22 48 26 10 20  SEPT 25 11 27 25 3 16  Oct 25 0 11 24 22 13  APRIL 27 10 57 27 22  MAY . 26 23 41 27 8  JUNE . 25 12 25 25 17  JULY . 25 1 9 25 1  AUG 23 13 53 23 9  SEPT 22 2 37 21 18	C.	FEB MAR	1 5 36 2 18 19 1 7 3	1 17 18 8 2 83 1 10 25		FEB	28 9 23	28 18 23
	0 20 1 <i>(</i>	MAY . JUNE . JULY . AUG SEPT OCT Nov	30 8 81 28 21 15 28 9 59 26 22 48 25 11 27 25 0 11 28 12 55	80 0 37 28 9 16 27 20 18 26 10 20 25 3 16 24 22 13 23 17 42	3 16 43	MAY . JUNE . JULY . AUG SEPT OCT Nov	26 23 41 25 12 25 25 1 9 23 13 53 22 2 37 21 15 21 20 4 5	27 22 12 27 8 24 25 17 0 25 1 0 28 9 21 21 18 49 21 5 58 19 18 46

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon,	Mean Vern <b>a</b> l Equinox.	Month.	Menn New Moon.	True New Moon.
B.C. 1520. E. April. d. h. m. 3 22 32	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	d. h. m.  18 5 33  16 18 17  18 7 2  16 19 46  16 8 30  14 21 14  14 9 58  12 22 42  11 11 26  11 0 10  9 12 54	d. h. m.  18 1 31  16 18 23  18 11 11  17 2 58  16 17 4  15 5 12  14 15 46  13 1 27  11 10 59  10 21 1  9 7 49  8 19 28	B.C. 1517. B.A. April. d. h. m. 8 15 58	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	d. h. m.  15 20 48  14 9 27  14 22 11  18 10 55  12 28 89  11 12 28  11 1 7  9 18 51  8 2 85  7 15 19  6 4 8  5 16 47	d. h. m. 15 23 17 14 8 45 14 17 56 18 8 85 12 14 85 11 8 81 10 18 28 9 11 2 8 4 19 7 21 17 6 18 4 6 8 4
1519. D. 4 4 21	JAN  FEB  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  SEPT  OCT  Nov	9. 1 38 7.14 22 6. 3 6 7.15 50 6. 4 34 5.17 18 4. 6. 2 3.18 46 { 2. 7 30 (31 20 14 30. 8 58 29 21 42 28 10 26	8 19 28  7 8 4  5 21 39  7 12 11  6 3 30  5 19 3  4 10 11  4 0 22  2 18 19  { 1 1 15  30 12 38  29 28 38  28 10 24	1516. c. 3 21 47	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 15 8 8 1 8 4 9 46 2 17 86 2 1 80 81 10 85 29 21 46 29 11 89 28 4 8 26 22 24 26 17 10
1518. c. 4 10 10	DEC  JAN  FEB  MAR	28 10 26 27 23 10 26 11 54 25 0 38 26 18 23 25 2 7 24 14 51 28 3 35 22 16 19 21 5 3 19 17 47 19 6 31 17 19 15 17 7 59	27 21 11 26 7 59 24 19 9 26 7 9 24 20 22 24 10 58 23 2 21 22 18 6 21 9 28 19 23 59 19 13 27 18 1 47	1515. r. 4 8 36	Nov DEC  JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	25 1 86 24 14 20 28 8 4 21 15 48 28 4 88 21 17 17 21 6 1 19 18 45 19 7 29 17 20 18 16 8 57 15 21 41 14 10 25 18 23 9	25 11 O 25 2 48  28 15 45 22 2 12 28 10 85 21 17 42 21 0 85 19 8 22 18 18 7 17 6 41 15 22 19 15 16 80 14 12 O 14 7 7

April. d. h. m. 4 9 25 April. 11 2 5 11 10 40  May . 10 14 49 10 17 48  June . 9 3 83 9 0 26  July . 8 16 17 8 7 40  Aug 7 5 1 6 16 32  Sept 5 17 45 5 3 56  Oct 5 6 29 4 18 18  Nov 3 19 13 3 11 28  April. d. h. m. April. April. d. h. m. April. d. h. m. April. April. d. h. m. April. April. April. April. April. d. h. m. April. April. April. April. April. April. April. April. d. h. m. April. Ap	. m. 19 3 38 6 20 2 35 33 33 46 15 0 32 0 19
B.C.  1514.  JAN 12 11 53 13 0 20  E.  Feb 11 0 37 11 14 38  April. d. h. m. 4 9 25 April. 11 2 5 11 10 40  May . 10 14 49 10 17 48  June . 9 3 33 9 0 26  July . 8 16 17 8 7 40  Aug 7 5 1 6 16 32  Sept 5 17 45 5 3 56  Oct 5 6 29 4 18 18  Nov 3 19 13 3 11 28  B.C.  1511.  JAN 9 3 3 8 2  Feb 7 15 47 7 15  April. d. h. m. 4 2 51  Mar . 7 5 59 7 15  June . 5 18 43 6 9  July . 5 7 27 5 1  Aug 8 20 11 4 6  Sept 2 8 55 2 16  Oct 1 21 39 1 25	19 3 38 6 20 2 35 3 33 2 46 4 15 3 32 0 19 0 16 6 44
E. Feb 11 0 37 11 14 38 A. April. d. h. m. 4 9 25 April 11 2 5 11 10 40 April 2 5 12 13 1 55 April 2 5 12 13 1 55 April 3 4 2 51 April 7 17 15 7 2 5 12 April 2 5 12 April 3 1 5 5 April 5 1 6 16 32 April 5 1 6 16 32 April 6 16 32 April 6 16 32 April 7 1 1 1 2 5 1 1 6 16 32 April 7 1 1 1 2 5 1 1 4 6 16 32 April 7 1 1 1 2 5 1 1 4 6 16 32 April 7 1 1 1 2 5 1 1 4 6 16 32 April 7 1 1 1 2 5 1 1 4 6 16 32 April 7 1 1 1 1 2 5 1 1 4 6 16 32 April 7 1 1 1 1 2 5 1 1 4 6 16 32 April 7 1 1 1 1 2 5 1 1 4 6 16 32 April 7 1 1 1 1 2 5 1 1 4 6 16 32 April 7 1 1 1 1 2 5 1 1 4 6 16 32 April 7 1 1 1 1 2 5 1 1 4 6 16 32 April 7 1 1 1 1 2 5 1 1 4 6 16 32 April 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 38 5 20 2 35 3 33 2 46 4 15 0 32 0 19 0 16 3 44
April. d. h. m. 4 9 25 April 11 2 5 11 10 40 MAY . 10 14 49 10 17 48 June . 9 3 83 9 0 26 July . 8 16 17 8 7 40 Aug 7 5 1 6 16 82 Sept 5 17 45 5 8 56 Oct 5 6 29 4 18 18 Nov 3 19 13 3 11 28  April. d. h. m. April. d. h. m. April. d. h. m. April. June . 9 4 31 9 6 April. June . 7 5 7 27 5 9 7 13 June . 5 18 48 6 9 July . 5 7 27 5 1 Aug 3 20 11 4 6 Sept 2 8 55 2 16 Oct 5 6 29 4 18 18 Nov 3 19 13 3 11 28	3 20 2 35 3 33 2 46 4 15 3 32 3 19 3 16 3 44
A. R. M.   A. R. M. M.   A. R. M. M.   A. R. M.   A. M.   A. R. M.   A. M.   A. R. M.   A. M.   A. R. M.   A. M.   A. R. M.   A. M	2 35 3 33 2 46 4 15 3 32 3 19 1 16 3 44
MAY . 10 14 49 10 17 48  JUNE . 9 3 33 9 0 26  JULY . 8 16 17 8 7 40  AUG 7 5 1 6 16 32  SEPT 5 17 45 5 3 56  Oct 5 6 29 4 18 18  Nov 3 19 13 3 11 28  MAY . 7 5 59 7 12  JUNE . 5 18 43 6 9  JULY . 5 7 27 5 1  AUG 3 20 11 4 6  SEPT 2 8 55 2 19  Oct 5 6 29 4 18 18  Nov 3 19 13 3 11 28	3 33 2 46 4 15 3 32 3 19 3 16 4 44
June.     9 3 83     9 0 26       July.     8 16 17     8 7 40       Aug.     7 5 1     6 16 32       Sept.     5 17 45     5 3 56       Oct.     5 6 29     4 18 18       Nov.     3 19 13     3 11 28         June.     5 18 43     6 9       July.     5 7 27     5 1       Aug.     3 20 11     4 6       Sept.     2 8 55     2 1       Oct.     5 6 29     4 18 18       Nov.     3 19 13     3 11 28	2 46 1 15 32 3 19 3 16 3 44
JULY     8 16 17     8 7 40     JULY     5 7 27     5 1       AUG.     7 5 1     6 16 82     AUG.     3 20 11     4 6       SEPT.     5 17 45     5 3 56     SEPT.     2 8 55     2 10       OCT.     5 6 29     4 18 18     OCT.     1 21 39     1 2       Nov.     3 19 13     3 11 28     OCT.     1 21 39     3 10	15 32 19 16 344
Aug. 7 5 1 6 16 32 Sept. 5 17 45 5 3 56 Oct. 5 6 29 4 18 18 Nov. 3 19 13 3 11 28  Aug. 3 20 11 4 6 Sept. 2 8 55 2 10 Oct { 1 21 39 1 20 31 10 23 31	32 19 16 3 44
SEPT 5 17 45 5 8 56 SEPT 2 8 55 2 10 Oct 5 6 29 4 18 18 Oct 8 19 13 3 11 28 Oct 8 19 13 3 11 28	19 16 3 44
Ост 5 6 29 4 18 18 Nov 3 19 13 3 11 28 Ост {1 21 39 1 28 31 10 23 31 6	) 16 3 44
Nov. 3 19 13 3 11 28 Oct. 31 10 23 31	3 44
1 101   20. 20   101   20. 20 1   20 1	
Dec 29 11 51 29	5 55
	, 00
1513. Jan 31 9 25 31 19 47 1510. Jan 28 0 35 27 19	3 44
Feb 29 22 10 G. Feb 26 13 19 26 1	3 29
Mar.   30 10 54   30 23 50   Mar.   28 2 4 27 28	12
3 15 14 April 28 23 38 29 9 33 4 8 40 April 26 14 48 26 14	. 33
MAY . 28 12 22 28 17 32 MAY . 26 3 32 26 3	57
June . 27 1 6 27 0 40 June . 24 16 16 24 20	47
July .   26 13 50   26 8 4     July .   24 5 0   24 10	35
Aug. 25 2 34 24 16 43 Aug. 22 17 44 22 26	18
Sept.   23 15 18   23   3 21	. 9
Oct 23 4 2 22 16 24 Oct 20 19 12 20 29	28
Nov 21 16 46 21 7 55 Nov 19 7 56 19 9	29
DEC 21 5 30 21 1 20 DEC 18 20 40 18 20	14
	50
B.   FEB   18 6 58   18 13 32   F.E.   FEB   15 22 8   15 17	30
	48
3 21 3 April 18 8 27 18 19 42 3 14 29 April 14 23 37 14 17	2
	45
June . 16 9 55 16 16 30 June . 18 1 5 12 21	47
July . 15 22 39 16 0 50 July . 12 13 49 12 18	<b>3</b> 5
	29
	<b>4</b> 6
Oct. 12 12 51 12 4 29 Oct. 9 4 1 9 11	0
Nov 11 1 35 10 16 27 Nov 7 16 45 8 0	8
DEC.   10 14 19   10 6 8   DEC.   7 5 29   7 12	8

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon,
B.C.		d. h. m.	d. h. m.	B.C.	<b>-</b>	d. h. m.	d. h. m.
1508. D.	Jan	5 18 13	5 22 40	1505. A.G.	JAN	3 9 23	3 20 1
	Fев	4 6 57	4 8 17	22.00	FEB	1 22 7	2 11 47
d. h. m.	MAR	5 19 41	5 17 17	April.	MAR	$\begin{cases} 2 & 10 & 51 \\ 31 & 23 & 35 \end{cases}$	8 0 29
3 20 18	APRIL	4 8 25	4 2 21	d. h. m.			f 1 10 19
	MAY .	3 21 9	3 12 22	3 13 44	APRIL	<b>30 12 1</b> 9	(80 18 5
	JUNE.	2 9 53	$\begin{bmatrix} 2 & 0 & 9 \end{bmatrix}$		MAY.	30 1 3	80 0 50
	JULY.	§ 1 22 37	1 14 6		June.	28 13 47	23 7 42
	0021	(31 11 21	31 6 4		July .	23 2 31	27 15 48
	Aug	30 0 5	29 23 19		Aug	26 15 15	26 1 52
<b>.</b>	SEPT	<b>28 12 4</b> 9	28 16 50		SEPT.	<b>25 3</b> 59	24 14 48
	Oct	28 1 33	28 9 32		Oct	24 16 43	24 6 39
	Nov	26 14 17	27 0 37		Nov	23 5 27	23 0 50
	DEC.	26 3 1	26 13 37		DEC	22 18 11	22 20 5
1507.	Jan	24 15 45	25 0 33	1504.	Jan	21 6 55	21 14 49
a.	FER	23 4 29	23 9 41	F.	FEB	19 19 39	20 7 35
	MAR.	24 17 14	24 17 37		Mar	21 8 24	21 21 34
4 2 7	APRIL	23 5 58	23 1 10	<b>3</b> 19 33	APRIL	19 21 8	20 8 8 3
	MAY .	22 18 42	22 9 25		MAY.	19 9 52	19 17 24
1	JUNE.	21 7 26	20 19 23		June .	17 22 36	18 0 52
	JULY .	20 20 10	20 7 54		July.	<b>17 11 2</b> 0	17 8 9
	Aug	19 8 54	18 23 13		Aug	16 0 4	15 16 14
	SEPT	17 21 38	17 16 53		SEPT	14 12 48	14 1 56
	Ocr	17 10 22	17 11 46		Oct	14 1 32	13 13 49
	Nov	15 23 6	16 6 23		Nov.	12 14 16	12 4 6
	DEC	15 11 50	15 23 20		DEC	12 3 0	11 20 81
1506.	JAN.	14 0 34	14 13 44	1503.	Jan	10 15 44	10 14 10
В.	FEB.	1	13 1 20	E,	FEB.	10 <b>15 44</b> 9 <b>4 2</b> 8	10 14 19
*	MAR.	14 2 3	14 10 32				9 8 21
4 7 50	1	12 14 47	12 18 1	4 1 22	MAR.	10 17 12	11 <b>1 25</b> 9 16 29
	MAY .	1	12 0 49	= 122	APRIL	9 5 56	
	JUNE .	10 16 15	10 7 59		MAY.	8 18 40	9 5 7
	JULY .	1	9 16 39		JUNE .	7 7 24	7 15 88
	Aug.	i .	8 3 47		JULY.	6 20 8	7 0 29
ł	SEPT.		6 17 57		Aug.	5 8 52	5 8 58
1.	Ocz.	6 19 11	6 11 5		SEPT.	3 21 36	3 17 40
I	Nov.	5 7 55	5 6 10		Oct	3 10 20	3 3 27
	DEC.	4 20 39			Nov.	1 23 4	1 14 38
					DEC	1 11 48	1 8 24
*	<u> </u>	<u> </u>	1	11		(31 0 32	30 17 <b>4</b> 0

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1502. D. April. d. h. m. 4 7 11	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	d. h. m. 29 13 16 28 2 0 29 14 44 28 3 28 27 16 12 26 4 56 25 17 40 24 6 24 22 19 8 22 7 52	d. h. m. 29 9 12 28 1 31 29 17 55 28 9 32 27 23 43 26 12 13 25 23 15 24 9 28 22 19 29 22 5 49	B.C. 1499. G. April. d. h. m. 4 0 87	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	d. h. m. 26 4 26 24 17 10 26 5 55 24 18 39 24 7 23 22 20 7 22 8 51 20 21 35 19 10 19 18 23 3	d. h. m. 26 7 49 24 16 50 26 1 38 24 10 46 28 21 26 22 10 18 22 1 17 20 18 11 19 11 55 19 5 24
	Nov Dec	20 20 36 20 9 21	20 16 43 20 <b>4</b> 10		Nov Dec	17 11 47 17 0 31	17 21 32 17 11 42
1501. c.B. 3 13 0	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	18 22 6 17 10 50 17 23 31 16 12 18 16 1 2 14 13 46 14 2 30 12 15 14 11 3 58 10 16 42 9 5 26 8 18 10	18 16 21 17 5 19 17 19 17 16 10 8 16 1 31 14 16 46 14 7 19 12 20 51 11 9 23 10 21 11 9 8 28 8 19 21	1498. F. 4 6 26	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	15 13 15 14 1 59 15 14 44 14 3 28 13 16 12 12 4 56 11 17 40 10 6 24 8 19 8 8 7 52 6 20 36 6 9 20	15 28 36 14 9 26 15 17 42 14 1 9 18 8 48 11 17 42 11 4 51 9 18 49 8 11 38 8 6 8 7 1 12 6 19 15
1500.	JAN	7 6 54	7 5 53	1497.	JAN	4 22 4	5 11 0
Α.	FEB Mar	5 19 38 7 8 22	5 16 13 7 2 49	E.D.	Fев	3 10 48 3 23 32	3 23 57
<b>3</b> 18 <b>4</b> 9	APRIL MAY. June.	5 21 6 5 9 50 3 22 34	5 14 14 5 3 3 3 17 22	3 12 15	MAR APRIL MAY.	2 12 16 2 1 0 31 13 44	4 10 9 2 18 15 2 1 11 31 7 59
	July .	3 11 18	3 8 56		June .	30 2 28	29 15 46
	Aug	2 0 2 31 12 46	2 1 3 3 1 17 0		July . Aug	29 15 12 28 <b>3</b> 56	29 1 85 27 14 18
	SEPT	30 1 30 29 14 14	30 8 7		SEPT	26 16 40	26 6 4
	Nov.		29 22 4		Oct	26 5-24	26 0 24
	DEC.	28 2 58 27 15 42	28 10 38 27 21 51		Nov DEC	24 18 8 24 6 52	24 19 57 24 15 4

Mean Vernal Equinox:	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon
B.C. 1496.	Jan	d. h. m. 22 19 36	d. h. m.	B.C. 1493,	Jan	d. h. m. 20 10 46	d. h. m. 20 5 15
c.	FEB.	21 8 21	21 22 23	G.F.		i	
April.	MAR.	1	1	April.	FEB	18 23 30	
d. h. m.		22, 21 5	23 9 30	d. h. m.	MAR.	19 12 15	19 13 12
8 18 4	APRIL	21 9 49	21 18 8	3 11 30	APRIL	18 0 59	18 5 10
	MAY.	20, 22 33	21 1 15		MAY .	17 13 43	17 20 8
	June.	19 11 17	19 7 57		June.	16 2 27	16 9 36
	JULY .	19 0 1	18 15 21		July.	15 15 11	15 21 34
	Aug.	17 12 45	17 0 26		Aug	14 3 55	14 8 22
ľ	SEPT	<b>16 1 2</b> 9	15 12 1		SEPT	12 16 39	12 18 40
	Oct.	15, 14 13	15 2 28		Ост	12 5 23	12 5 1
	Nov	14, 2 57	13 19 34		Nov	10 18 7	10 15 41
	DEC	18, 15 41	13 14 23		DEC	10 6 51	10 2 40
1495.	JAN	12 4 25	12 9 27	1492.	JAN	8 19 35	8 14 24
В.	FEB	10 17 9	11 3 14	E.	FEB	7 8 19	7 2 3J
	MAR	12 5 54	12 18 35		MAR.	8 21 4	8 15 50
3 23 58	APRIL	10 18 38	11 7 2	3 17 19	APRIL	7 9 48	7 6 0
	MAY .	10, 7 22	10 16 52		MAY .	6 22 32	6 21 1
	JUNE .	8 20 6	9 0 56		June .	5 11 16	5 12 26
	July.	8 8 50	8 8 19		JULY.	5 0 0	5 3 32
	Aug.	6 21 34	6 16 1		Aug	3 12 44	3 17 51
	SEPT.	5 10 18	5 0 59		SEPT.	2 1 28	2 7 11
	Oct.	4 23 2	4 11 50			( 1 14 12	1 19 36
	Nov.	. 3 11 46	3 0 56		Oct	31 2 56	31 7 19
	DEC.	. 3 0 30	2 16 15		Nov.	29 15 40	29 18 27
		( 1 13 14	1 0 10		DEC	29 4 24	29 5 4
1494.	JAN.	$\left\{\begin{array}{c c} 1 & 13 & 14 \\ 31 & 1 & 58 \end{array}\right.$	i	1491.	JAN	27 17 8	27 15 16
	FEB.			D.	FEB.	26 5 52	26 1 23
	MAR.	§ 1 14 42	1 20 37		MAR.	27 18 36	27 12 2
į	242	181 8 26	31 12 39	3 23 8	APRIL	26 7 20	25 23 53
4 5 4	2 APRII	L 29 16 10	30 2 32	0 25 6	MAY .	25 20 4	25 13 18
	MAY	. 29 4 54	29 14 5		June .	24 8 48	24 4 18
	JUNE	. 27 17 38	27 28 50			23 21 32	23 20 22
l	JULY	. 27 6 22	2 27 8 36		JULY .	22 10 16	22 12 46
	Aug.	. 25 19 6	25 17 17		Aug	20 23 0	21 4 40
į.	SEPT.	. 24 7 50	24 2 41		SEPT	20 23 0	
	Ост.		1 23 13 16		Oct		1
20.	Nov.	. 22 9 18	8 22 1 13		Nov		1
	DEC.	. 21 22 9	2 21 14 35		DEC	18 13 12	. 10 20 90
1	-		1				

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Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
Jan Feb Mar April	d. h. m. 17 1 56 15 14 40 17 3 25 15 16 9	d. h. m. 17 7 17 15 16 31 17 1 5 15 9 42	B.C. 1487. F. April. d. h. m. 3 22 23	JAN FEB MAR APRIL	d. h. m. 13 17 6 12 5 50 13 18 35 12 7 19	d. h. m.  14
JUNE . JULY . AUG SEPT OCT Nov DEC	13 17 37 13 6 21 11 19 5 10 7 49 9 20 33 8 9 17 7 22 1	13 6 57 12 20 53 11 13 5 10 6 44 10 0 44 8 17 52 8 9 11		JUNE . JULY . AUG SEPT OCT Nov DEC	10 8 47 9 21 81 8 10 15 6 22 59 6 11 48 5 0 27 4 18 11	10 8 19 9 15 21 7 23 34 6 9 57 5 23 1 4 14 51 4 8 58
JAN FEB MAR	6 10 45 4 23 29 5 12 18	6 22 12 5 8 54 5 17 42	1486. E.	JAN FEB	3 1 55 1 14 39 3 3 23	8 3 52 1 22 19 3 14 52
APRIL MAY . JUNE . JULY . Aug	4 0 57 8 13 41 2 2 25 ( 1 15 9 (81 8 58 29 16 37	4 1 16 8 8 33 1 16 36 1 2 30 30 15 8 29 6 34	4 4 12	APRIL MAY . JUNE . JULY . AUG	1 16 7 { 1 4 51 { 30 17 35 29 6 19 28 19 3 27 7 47	2 4 43 1 15 47 31 0 41 29 8 24 28 15 58 27 0 24
SEPT OCT Nov DEC	28 5 21 27 18 5 26 6 49 25 19 83 24 8 17	28 0 80 27 19 40 26 14 31 26 7 33 24 21 53	1485.	SEPT OCT NOV DEC	25 20 31 25 9 15 28 21 59 28 10 43 21 28 27	25 10 28 24 22 23 28 12 33 28 4 38 21 21 59
FEB	22 21 1 24 9 46	23 9 19 24 18 16	D.C.	FEB	20 12 11 21 0 56	20 15 33 21 8 18
APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	22 22 80 22 11 14 20 28 58 20 12 42 19 1 26 17 14 10 17 2 54 15 15 38 15 4 22	28 1 81 22 8 14 20 15 24 20 0 7 18 11 28 17 1 48 16 18 57 15 14 8 15 9 39	8 10 1	APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	19 13 40 19 2 24 17 15 8 17 3 52 15 16 36 14 5 20 13 18 4 12 6 48 11 19 32	19 23 15 19 12 0 17 22 48 17 8 4 15 16 55 14 2 7 13 12 18 11 28 80 11 12 8
	JAN FEB APRIL MAY . JUNE . JULY . AUG SEFT OCT MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC JAN FEB MAR . APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	Month. New Moon.  JAN. 17 1 56 FEB. 15 14 40 MAR. 17 3 25 APRIL 15 16 9 MAY 15 4 58 JUNE 13 17 37 JULY 13 6 21 AUG. 11 19 5 SEPT. 10 7 49 OCT. 9 20 38 NOV. 8 9 17 DEC. 7 22 1  JAN. 6 10 45 FEB. 4 23 29 MAR. 5 12 18 APRIL 4 0 57 MAY 8 13 41 JUNE 2 2 25 JULY 15 9 31 3 53 AUG. 29 16 37 SEPT. 29 5 21 OCT. 27 18 5 NOV. 26 6 49 DEC. 25 19 83  JAN. 24 8 17 FEB. 22 21 1 MAR. 24 9 46 APRIL 22 22 80 MAY 22 11 14 JUNE 20 28 58 JULY 20 12 42 AUG. 19 1 26 SEPT. 17 14 10 OCT. 17 2 54 NOV. 15 15 38	Month. New Moon.    Jan.   17   1   56   17   7   17	Month. New Moon.    Color	Month.   New   Moon.   New   Moon.   Equinox.   Month.	Month.         New Moon.         New Moon.         Vernal Equinox.         Month.         New Moon.           Jan.         17 1 56 17 7 17         15 14 40 15 16 81         Jan.         13 17 6         1487.         Jan.         13 17 6           Feb.         15 14 40 15 16 81         Jan.         13 17 6         Jan.         13 18 35         June.         10 8 47         June.         10 8 47         June.         10 8 47         June.         10 8 47         June.         9 21 31         Aug.         8 10 15         Sept.         6 22 12         June.         9 21 31         Aug.         8 10 15         Sept.         6 22 59         Oct.         6 11 43         Nov.         4 18 11         June.         4 23 29         5 8 54         June.         June.         1 4 39         June.         1 5 5

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1484. B. April. d. h. m. 8 15 50	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov	d. h. m.  10 8 16 8 21 0 10 9 45 8 22 29 8 11 13 6 23 57 6 12 41 5 1 25 3 14 9 3 2 58 1 15 37 { 1 4 21 (30 17 5	d. h. m.  10 1 52 8 16 48 10 8 35 9 0 35 8 16 4 7 6 25 6 19 18 5 6 52 3 17 39 3 4 9 1 14 47 1 1 41 30 12 53	B.C. 1481. F.E. April. d. h. m. 3 9 16	JAN FEB MAR APLYL MAY . JUNE . JULY . AUG SEFT OCT NOV DEC	d. h. m. 7 28 26 6 12 10 7 0 55 5 18 39 5 2 28 3 15 7 8 3 51 { 1 16 35 31 5 19 29 18 3 29 6 47 27 19 31 27 8 15	d. h. m.  8 6 84 6 16 12 7 0 50 5 9 5 4 17 55 8 4 28 2 17 2 1 8 18 81 1 26 29 19 39 29 18 34 28 6 1 27 20 15
1483. A.	JAN Feb	29 5 49 27 18 33	29 0 31 27 12 53	1480. D.	JAN Feb	25 20 59 24 9 43	26 8 1 24 17 33
3 21 39	MAR APRIL MAY. JUNE. JULY. AUG SEPT OCT NOV DEC	29 7 17 27 20 1 27 8 45 25 21 29 25 10 18 28 22 57 22 11 41 22 0 25 20 18 9 20 1 53	29 2 15 27 16 41 27 7 54 25 23 20 25 14 20 24 4 28 22 17 37 22 5 53 20 17 25 20 4 16	3 15 5	MAR APRIL MAY . JUNE . JULY . AUG SEPT Oct Nov Dec	25 22 27 24 11 11 28 28 55 22 12 89 22 1 28 20 14 7 19 2 51 18 15 85 17 4 19 16 17 8	26 1 28 24 8 38 23 16 4 22 0 51 21 12 2 20 2 8 18 19 4 18 13 57 17 9 15 17 3 25
1482. G. 4 3 28	JAN FEB MAR APRIL	18 14 37 17 3 21 18 16 6 17 4 50	18 14 28 17 0 19 18 10 22 16 21 17	1479. c. 8 20 54	JAN FEB MAR	15 5 47 13 18 31 15 7 16	15 19 10 14 7 57 15 17 57
	MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	16 17 34 15 6 18 14 19 2 13 7 46 11 20 30 11 9 14 9 21 58 9 10 42	16 9 48 14 28 54 14 15 87 18 8 9 12 0 39 11 16 22 10 6 48 9 19 29	o 20 o4	APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	18 20 0 18 8 44 11 21 28 11 10 12 9 22 56 8 11 40 8 0 24 6 13 8 6 1 52	14 1 51 18 8 39 11 15 24 10 23 15 9 9 14 7 22 5 7 14 0 6 8 28 6 3 54

Mean		25				l i	
Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
В.С		d. h. m.	d. h. m.			d. h. m.	d. h. m.
B.C. 1478.	JAN	4 14 36	4 22 56	B.C.		(1546	
в.	FEB	3 3 21	3 15 55	1475. E.	JAN	₹30 18 30	30 13 7
April. $d. h. m.$	MAR	4 16 5	5 5 56		FEB	•••	•••
4 2 43	APRIL	<b>3 4 4</b> 9	3 16 57	April.	MAR	$\{1714$	1 4 14
	MAY .	2 17 33	3 1 31	d. h. m.		(30 19 58	30 19 57
	June .	∫ 1 6 17	1 8 42	3 20 9	APRIL	29 8 42	20 11 40
	JUNE.	\30 19 1	30 15 32		MAY .	28 21 26	29 2 40
	Jury.	30 7 45	29 23 10		June.	27 10 10	27 16 28
ĺ	Aug	28 20 29	28 8 29		July .	26 22 54	27 4 55
	SEPT	27 9 13	26 20 15		Aug	25 11 38	25 16 18
	Oct	26 21 57	26 10 45		SEPT.	24 0 22	24 3 8
1	Nov	25 10 41	25 3 44		Nov.	23 13 6	23 13 52
	Dec	24 23 25	24 22 17			22 1 50	22 0 40
1477.	JAN	23 12 9	23 17 1		DEC	21 14 34	21 11 37
A.G.	FEB.	22 0 53	22 10 31	1474.	JAN	20 3 18	19 22 48
	MAR.	22 13 37	23 1 41	D.	FEB	18 16 2	18 10 29
3 8 32	APRIL	21 2 21	21 14 6		MAR	20 4 47	19 23 2
	MAY.	20 15 5	21 0 2	4 1 58	APRIL	18 17 31	18 12 43
	June.	19 3 49	19 8 19		MAY.	18 6 15	18 3 28
	JULY.	18 16 33	18 16 1		June.	16 18 59	16 18 55
	Aug	17 5 17	17 0 5		JULY.	16 7 43	16 10 22
1	SEPT	15 18 1	15 9 23		Aug	14 20 27	15 1 18
	Ост	15 6 45	14 20 26		SEPT	13 9 11	13 15 10
	Nov	13 19 29	13 9 31		Nov.	12 21 55 11 10 39	13 4 8
	Dec	13 8 13	13 0 32		DEC.	10 23 23	11 16 11 11 3 22
44~-	-						
1476. F.	JAN	11 20 57	11 17 7	1473. c.b.	JAN	9 12 7	9 13 46
	FEB	10 9 41	10 10 28	,	FEB	8 0 51	7 23 33
3 14 21	MAR	11 22 26	12 3 34	0 7 47	MAR	8 13 36	8 9 10
9 14 21	APRIL	10 11 10	10 19 24	3 7 47	APRIL	7 2 20	6 19 18
	MAY. June.	9 23 54 8 12 38	10 9 18 8 21 6		MAY .	6 15 4	6 6 42
	JULY.	8 1 22	8 7 13		June .	5 3 48	4 19 55
	Aug	6 14 6	6 16 26		July . Aug	4 16 32 3 5 16	4 10 56 3 3 19
	SEPT.	5 2 50	5 1 36		SEPT	1 18 0	1 20 11
	Ост	4 15 34	4 11 28		OEPT	( 1 6 44	1 12 40
	Nov	3 4 18	2 22 8		Oct	30 19 28	31 3 59
			(210 0		Nov.	29 8 12	29 17 41
	DEC	2 17 2	$\begin{cases} 2 & 10 & 0 \\ 31 & 22 & 59 \end{cases}$		DEC.	28 20 56	29 5 35
i <u> </u>			.52 == 00			20 20 00	20 000

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1472.	JAN	d. h. m. 27 9 40	d. h. m. 27 15 48	B.C. 1469.	Jan	d. h. m. 25 0 50	d. h. m. 25 11 85
Α.	FEB	25 22 24	26 0 39	E.D.	FEB	23 13 34	24 8 8
April. d. h. m.	MAR	27 11 8	27 8 46	April. $d. h. m.$	MAR	24 2 18	24 15 29
3 13 36	APRIL	25 23 52	25 17 0	3 7 2	APRIL	22 15 2	23 1 9
	MAY .	25 12 36	25 2 23		MAY .	22 3 46	22 8 53
	June.	24 1 20	23 13 49		June .	20 16 30	20 15 50
	July.	28 14 4	23 3 48		July .	20 5 14	19 23 4
	Aug	22 2 48	21 20 12		Aug	18 17 58	18 7 34
	SEPT	20 15 32	20 14 15		SEPT	17 6 42	16 18 10
	Ост	20 4 16	20 8 41		Ocr	16 19 26	16 7 19
	Nov	18 17 0	19 2 11		Nov	15 8 10	14 28 6
	DEC	18 5 44	18 17 40		DEC	14 20 54	14 16 58
1471.	JAN	16 18 28	17 6 37	1468.	Jan	13 9 38	13 11 32
G.	FEB	15 7 12	15 17 6	C.	FEB	11 22 22	12 5 38
	MAR	16 19 57	17 1 36		MAR	13 11 7	13 21 58
3 19 25	APRIL	15 8 41	15 8 53	3 12 51	APRIL	11 23 51	12 11 44
	MAY .	14 21 25	14 15 56		MAY .	11 12 35	11 22 58
	JUNE.	13 10 9	12 23 51		June .	10 1 19	10 7 58
	JULY.	12 22 53	12 9 44		JULY.	9 14 3	9 15 59
	Aug	11 11 37	10 22 24		Aug	8 2 47	7 23 58
	SEPT	10 0 21	9 14 4		SEPT	6 15 31	6 8 44
	Ост	9 13 5	9 8 13		Ост	6 4 15	5 19 0
	Nov.	8 1 49	8 3 37		Nov	4 16 59	478
	DEC	7 14 33	7 22 38		DEC	4 5 48	3 21 2
1470. F.	JAN	6 3 17	6 15 41	1467.	JAN	2 18 27	2 12 48
	FEB.	4 16 1	5 5 55	В.	FEB	1 7 11	1 5 81
	MAR.	1	6 17 10		Mar	2 19 56	2 22 39
4 1 14		4 17 30	5 1 55	3 18 40	APRIL	§ 1 8 40	1 15 4
	MAY .	4 6 14	4 9 4	0 10 40	APRIL	\30 21 24	1 1 5 57
į	JUNE.	2 18 58	2 15, 41		MAY .	30 10 8	(30 18 50
	JULY.	2 7 42			June .	28 22 52	29 5 56
1	Aug.	30 9 10			JULY.	28 11 36	28 15 44
	SEPT.	1 55 5 10	29 19 11		Aug	27 0 20	27 1 6
	Ост.				SEPT	25 13 4	25 10 42
1	Nov.	1	1		Ост	25 1 48	24 21 5
	DRC.	26 12 6	0		Nov.	28 14 32	23 8 22
		1 -4 +2 0	20 11 52		DEC.	23 3 16	22 20 38
'		1	1				

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
1466.	JAN	21 16 0	21 9 57	1463.	JAN	18 7 10	18 15 10
A.	FEB	20 4 44	20 0 17	D.	Fев	16 19 54	17 0 29
April. $d. h. m.$	MAR	21 17 28	21 15 29	April. $d. h. m.$	MAR	18 8 38	18 8 40
4 0 29	APRIL	20 6 12	20 7 8	d. h. m. 3 17 55	APRIL	16 21 22	16 16 31
	MAY .	19 18 56	19 22 33		MAY .	16 10 6	16 1 3
	June .	18 7 40	18 13 7		June.	14 22 50	14 11 16
	JULY .	17 20 24	18 2 26		JULY .	14 11 34	13 23 57
	Aug	16 9 8	16 14 35		Aug	13 0 18	12 15 17
	SEPT	14 21 52	15 1 56		SEPT	11 13 2	11 8 49
	Oct	14 10 36	14 12 53		Oct	11 1 46	11 3 26
	Nov	12 23 20	12 23 43	ĺ	Nov	9 14 30	9 21 44
	DEC	12 12 4	12 10 34		DEC	9 3 14	9 14 25
1465.	JAN	11 0 48	10 21 27	1462.	JAN	7 15 58	8 4 40
G.F.	FEB	9 13 32	9 8 35	c.	FEB	6 4 42	6 16 16
	MAR	10 2 17	9 20 21		MAR	7 17 27	8 1 32
3 6 18	APRIL	8 15 1	8 9 10	3 23 44	APRIL	6 6 11	6 9 11
	MAY .	8 3 45	7 23 15		MAY .	5 18 55	5 16 5
	JUNE .	6 16 29	6 14 23		JUNE .	4 7 39	3 23 23
	July.	6 5 13	6 6 0		JULY.	3 20 23	3 8 9
	Aug	4 17 57	4 21 28		Aug	§ 2 9 7	1 19 23
	SEPT	3 6 41	8 12 13		1100	(81, 21, 51	31 9 38
	Oct	2 19 25	3 1 57		SEPT.	30 10 35	30 2 46
	NT	f 1 8 9	1 14 40		Ocr	29 23 19	29 21 51
	Nov	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(1 2 20		Nov	28 12 3	28 17 21
	DEC	30 9 37	80 13 4		DEC	28 0 47	28 11 31
1464.	JAN	28 22 21	28 22 56	1461.	JAN	26 13 31	27 8 10
E.	FEB	27 11 5	27 8 19	B.A.	FEB	25 2 15	
	MAR	28 23 50	28 17 51		MAR	25 14 59	1
3 12 7	APRIL	27 12 34	27 4 17	3 5 33	APRIL	24 3 43	
	MAY .	27 1 18	26 16 25		MAY .	23 16 27	l
	June .	25 14 2	25 6 32		June .	22 5 11	
	July.	25 2 46	24 22 25		July.	21 17 55	
	Aug	23 15 30	23 15 22		Aug	20 6 39	
	SEPT	22 4 14	22 8 26		SEPT	18 19 23	_
	Ост.	21 16 58	22 0 39		Ост.	18 8 7	
	Nov.	20 5 42	20 15 23		Nov	16 20 51	1
	DEC	19 18 26	20 4 14		Dec	16. 9 35	16 11 49

Mean Vernal Equinox.	Month.	Mean New Moon.	True · New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1460. g. April. d. h. m. 3 11 22	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	d. h. m. 14 22 19 13 11 3 14 23 48 13 12 32 13 1 16 11 14 0 11 2 44 9 15 28 8 4 12 7 16 56 6 5 40	d. h. m.  15 6 39 18 23 26 15 18 19 14 0 15 18 8 50 11 16 7 10 28 11 9 7 5 7 16 42 7 4 38 5 19 7	B.C. 1457. D.C. April. d. h. m. 3 4 48	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	d. h. m.  12 18 29  11 2 18  11 14 58  10 3 42  9 16 26  8 5 10  7 17 54  6 6 38  4 19 22  4 8 6  2 20 50	d. h. m. 12 7 18 10 20 50 11 11 21 10 2 37 9 18 8 8 9 14 7 25 24 6 12 23 5 0 23 4 11 45 2 22 46
1459. F.	DEC JAN FEB	5 18 24 4 7 8 2 19 52	5 11 53 4 6 4 3 0 26	1456.	DEC	2 9 34 31 22 18 30 11 2	2 9 38 31 20 23 30 7 6
3 17 11	Mar April	4 8 37 2 21 21	4 17 38 3 8 40	В.	FEB	28 23 47 30 12 31	2S 18 13 30 6 10
1458.	MAY .  JUNE .  JULY .  AUG  SEPT  OCT  NOV  DEC	\$\begin{cases} 2 & 10 & 5 \\ 31 & 22 & 49 \end{cases}\$ \$\text{30 } 11 & 33 \\ 30 & 0 & 17 \\ 28 & 13 & 1 \\ 27 & 1 & 45 \\ 26 & 14 & 29 \\ 25 & 3 & 13 \\ 24 & 15 & 57 \end{cases}\$	2 21 6 { 1 7 13 30 15 48 29 23 51 28 8 20 26 17 57 26 5 9 24 18 8 24 8 50	3 10 37	APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	29 1 15 28 13 59 27 2 48 26 15 27 25 4 11 23 16 55 23 5 39 21 18 23 21 7 7	23 19 24 28 9 57 27 1 27 26 17 17 25 8 48 23 23 17 28 12 45 22 1 4 21 12 15
E.	FEB MAR	28 4 41 21 17 25 28 6 9	28 0 58 21 17 42 28 10 22	1455.	Jan Feb Mar	19 19 51 18 8 35 19 21 19	19 22 23 18 7 44 19 16 49
8 28 0	APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	21 18 58 21 7 37 19 20 21 19 9 5 17 21 49 16 10 83 15 23 17 14 12 1 14 0 45	22 2 8 21 16 0 20 4 6 19 14 40 18 0 24 16 10 4 15 20 11 14 7 2 13 18 44	8 16 26	APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	18 10 3 17 22 47 16 11 81 16 0 15 14 12 59 18 1 48 12 14 27 11 8 11 10 15 55	18 2 28 17 13 20 16 2 32 15 17 39 14 10 21 13 3 43 12 20 44 11 12 29 11 2 22

- T	•	75		75			1
Mean Vernal Equinox.	Month.	Mean ·· New Moon.	True New Moon,	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon,
B.C.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
1454. G.	JAN	9 4 39	9 14 13	1451. c.	Jan	<b>5 19 4</b> 9	6 1 16
April.	FEB	7 17 23	8 0 9	April.	FEB	4 8 23	4 18 58
d. h. m.	MAR	,9 6 8	9 8 39	d. h. m.	MAR	5 21 18	6 10 27
3 22 15	APRIL	7 18 52	<b>7 1</b> 6 22	3 15 41	APRIL	4 10 2	4 22 46
	MAY.	7 7 36	7 0 16		MAY.	3 22 46	4 8 25
	June .	5 20 20	5 9 25		June.	2 11 30	2 16 16
	JULY.	5 9 4	4 20 46		JULY.	$\int 2 0 14$	1 23 25
	Aug	3 21 48	3 10 51		OULI.	(31 12 58	31 6 56
	SEPT	2 10 32	2 3 30		Aug	30 1 42	29 15 44
	Oct	j 1 23 16	1 21 56		SEPT	28 14 26	28 2 33
	001.	131 12 0	31 16 45		Ocr	28 3 10	27 15 47
	Nov	30 0 44	30 <b>1</b> 0 40		Nov.,	26 15 54	26 7 24
	DEC	29 13 28	30 2 4		Dec	26 4 38	26 0 51
1453.	Jan	28 2 12	28 14 55	1450.	Jan	24 17 22	24 19 4
F.E.	FEB	26 14 56	27 1 9	B.	FEB	23 6 6	23 12 49
	MAR	27 3 41	27 9 23		MAR	24 18 51	25 4 56
3 4 4	Arril	25 16 25	25 <b>1</b> 6 24	3 21 30	APRIL	23 7 35	23 18 39
	MAY.	25 5 9	24 23 18		MAY -	22 20 19	23 5 56
	June .	28 17 53	23 7 11		JUNE .	21 9 3	21 15 19
	July.	23 6 37	22 17 6		July .	20 21 47	20 28 41
	Aug	21 19 21	21 5 53		Aug	19 10 31	19 8 4
	SEPT	20 8 5	19 21 44		SEPT	17 23 15	17 17 13
	Oct	19 20 49	19 16 5		Ocr	17 11 59	17 3 43
	Nov	18 9 33	18 11 37		Nov	16 0 43	15 15 47
	DEC	17 22 17	18 6 40		Dec	15 18 27	15 5 81
1452.	JAN	16 11 1	16 23 42	1449.	JAN	14 2 11	13 20 42
D.	PEB	14 23 45	15 13 47	A.G.	FEB	12 14 55	12 12 56
	MAR	16 12 29	17 0 51		MAR	13 3 39	18 5 85
<b>3</b> 9 53	APRIL	15 1 13	15 9 25	3 3 19	APRIL	11 16 23	11 21 42
	MAY .	14 13 57	14 16 30		MAY .	11 5 7	11 12 84
	June .	13 2 41	12 23 9		June.	9 17 51	10 1 42
	July.	12 15 25	12 6 28		JULY .	9 6 35	9 13 11
	Aug	11 4 9	10 15 81		Aug	7 19 19	7 28 80
	SEPT	9 16 53	9 3 8		SEPT	683	6 9 21
	Oct	9 5 37	8 17 42		Ocr	5 20 47	5 19 24
	Nov	7 18 21	7 11 1		Nov	4 9 81	4 5 58
	DEC	7.75	7 6 2		Dec	3 22 15	3 17 13

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1448. F. April. d. h. m. 3 9 8	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT	d. h. m. { 2 10 59 81 23 43 2 12 28	d. h. m. 2 5 10 31 17 55 { 2 7 39 81 22 19 80 13 38 80 5 0 28 19 49 28 9 40 26 22 26 25 10 20 24 21 42	B.C. 1445. c.B. April. d. h. m. 3 2 35	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov	d. h. m. 29 14 53 28 3 37 28 16 22 27 5 6 26 17 50 25 6 34 24 19 18 23 8 2 21 20 46 21 9 30 19 22 14	d. h. m. 29 23 37 28 8 34 28 16 24 26 23 56 26 8 13 24 18 18 24 7 1 22 22 32 21 16 22 21 11 19 20 5 55
1447.	Nov Dec Jan	23 7 4 22 19 48 21 8 32	23 8 43 22 19 26 21 5 57	1444. A.	DEC JAN FEB	19 10 58 17 23 42 16 12 26	19 22 45 18 12 58 17 0 22
8 14 57		19 21 16 21 10 0 19 22 44	19 16 32 21 3 42 19 16 0	3 8 23	MAR APRIL MAY.	18 1 10 16 13 54 16 2 38	18 9 22 16 16 45 15 23 30
	MAY . JUNE . JULY . Aug	19 11 28 18 0 12 17 12 56 16 1 40	19 5 46 17 20 51 17 12 45 16 4 42		JUNE . JULY . AUG SEPT	14 15 22 14 4 6 12 16 50 11 5 34	14 6 48 13 15 32 12 2 51 10 17 16
	SEPT OCT Nov DEC	14 14 24 14 3 8 12 15 52 12 4 36	14 20 3 14 10 22 12 23 26 12 11 14	,	Oct Nov Dec	10 13 18 9 7 2 8 19 46	10 10 84 9 5 46 9 1 17
1446. D.	Jan Feb Mar	10, 17 20 9, 6 4 10, 18 49	10 21 46 9· 7 16 10 16 10	1443. G. 3 14 12	JAN FEB MAR APRIL	7 8 30 5 21 14 7 9 59 5 22 43	7 19 27 6 11 1 7 23 30 6 9 9
3 20 4	MAY . June .	9 7 33 8 20 17 7 9 1	9 1 11 8 11 15 6 23 7		MAY . JUNE . JULY .	5 11 27 4 0 11 3 12 55	5 16 49 3 23 33 3 6 28
	July . Aug Sept Oct	6 21 45 5 10 29 3 23 13 3 11 57	6 13 12 5 5 19 3 22 42 3 16 17		Aug Sept Oct	(2 1 3) (31 14 23 30 3 7 29 15 51	1 14 38 31 0 58 29 14 7 29 6 9
	Nov	2. 0 41	2 8 59 2 0 0		Nov DEC	29, 15, 51 28, 4, 35 27, 17, 19	29 6 9 28 0 24 27 19 38

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1442. F. April.	Jan Feb Mar	d. h. m. 26 6 3 21 18 47 26 7 32	d. h. m. 26 14 15 25 6 49 26 20 36	B.C. 1439. B. April. d. h. m.	JAN` FEB MAR	d. h. m. 22 21 13 21 9 57 22 22 42	d. h. m. 22 15 33 21 4 28 22 18 23
d. h. m. 3 20 1	APRIL MAY. JUNE. JULY.	24 20 16 24 9 0 22 21 44 22 10 28	25 7 29 24 16 9 22 23 37 22 6 58	3 13 27	APRIL MAY . JUNE . JULY .	21 11 26 21 0 10 19 12 54 19 1 38	21 9 13 21 0 35 19 15 50 19 6 24
	Aug Sept Oct Nov	20 23 12 19 11 56 19 0 40 17 13 24 17 2 8	20 15 10 19 1 4 18 13 7 17 3 32 16 20 0		Aug Sept Oct Nov Dec	17 14 22 16 3 6 15 15 50 14 4 34 13 17 18	17 19 58 16 8 34 15 20 24 14 7 48 18 18 35
1441. E.D.	JAN FEB MAR	15 14 52 14 8 86 14 16 20	15 18 47 14 7 44 15 0 37	1438. A.	Jan Feb Mar	12 6 2 10 18 46 12 7 90	12 5 2 10 15 17 12 1 48
3 1 50	APRIL MAY. JUNE. JULY. AUG.	13 5 4 12 17 48 11 6 32 10 19 16 9 8 0	13 15 31 13 4 1 11 14 22 10 23 19 9 7 49	8 19 16	APRIL MAY . JUNE . JULY . AUG	10 20 14 10 8 58 8 21 42 8 10 26 6 23 10	10 13 13 10 2 1 8 16 26 8 8 4 7 0 18
	SEPT OCT Nov DEC	7 20 44 7 9 28 5 22 12 5 10 56	7 16 41 7 2 87 5 13 55 5 2 45		SEPT OCT Nov DEC	5 11 54 5 0 38 3 13 22 3 2 6	5 16 18 5 7 28 8 21 24 8 9 56
1440. c.	JAN FEB MAR	3 23 40 2.12 24 4. 1 9	3 17 1 2 8 31 4 0 48	1437. G.F.	Jan Feb	1 14 50 81 3 84 29 16 18	1 21 2 81 6 51 29 15 45
3 7 39	APRIL MAY . JUNE .	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 17 6 .2 8 36 31 22 43 30 11 10	8 1 5	MAR APRIL MAY. JUNE.	30 5 8 28 17 47 28 6 81 26 19 15	30 0 23 28 9 37 27 20 21 26 9 16
and the second s	JULY . AUG SEPT	29. 16 49 28 5 33 26. 18 17 26. 7 1	29 22 15 28 8 30 26 18 37 26 5 4		July . Aug Sept Oct	26. 7 59 24. 20 48 23. 9 27 22. 22 11	26 0 29 24 17 82 28 11 22 28 4 58
	Nov DEC	24. 19 45 24. 8 29	24 15 58 24 3 26		Nov Dec	21.10 55 20.28 89	21 20 59 21 11 0

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Mean Vernal Equinox.	Month.	Mean New Moon,	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1436. E. April. d. h. m. 3 6 54	JAN FEB MAR APRIL MAY . JUNE . JULY .	d. h. m.  19 12 28  18 1 7  19 18 52  18 2 36  17 15 20  16 4 4  15 16 48	d. h. m. 19 22 44 18 8 23 19 16 31 17 28 55 17 7 33 15 16 33 15 3 52	B.C. 1433. B.A. April. d. h. m. 3 0 20	Jan Feb Mar April May . June . July .	<ul> <li>d. h. m.</li> <li>17 3 33</li> <li>15 16 17</li> <li>16 5 1</li> <li>14 17 45</li> <li>14 6 29</li> <li>12 19 13</li> <li>12 7 57</li> </ul>	d. h. m. 17 8 56 16 2 88 16 17 40 15 5 56 14 15 88 12 23 40 12 7 5
	Aug Sept Oct Nov Dec	14 5 32 12 18 16 12 7 0 10 19 44 10 8 28	13 18 4 12 10 58 12 5 41 11 0 47 10 18 44		Aug SEPT Oct Nov Dec	10 20 41 9 9 25 8 22 9 7 10 58 6 23 37	10 14 55 9 0 2 8 11 3 7 0 18 6 15 41
1435. D.	JAN FEB MAR	8 21 12 7 9 56 8 22 40	9 10 20 7 23 3 9 9 4	1432. G.	JAN FEB MAR	5 12 21 4 1 5 5 13 50	5 8 44 4 2 30 5 19 53
3 12 43	APRIL MAY . JUNE .	7 11 24 7 0 8 5 12 52	7 17 1 6 23 52 5 6 42	3 6 9	APRIL MAY . June .	4 2 34 3 15 18 2 4 2	4 11 46 4 1 28 2 12 57
•	JULY . AUG SEPT	5 1 36 3 14 20 2 3 4	4 14 35 3 0 36 1 13 32		July.	1 16 46 31 5 30 29 18 14	1 22 39 31 7 27 29 16 17
	Oct	1 15 48 31 4 32	1 5 31 31 0 0		Aug Sept Oct	28 6 58 27 19 42	28 1 49 27 12 31
1434.	DEC.,	29 17 16 29 6 0 27 18 44	29 19 34 29 14 35 28 7 31	1401	Nov Dec	26 8 26 25 21 10	26 0 32 25 13 56
с.	FEB	26 7 28 27 20 13	26 21 27	1431. F.	Jan Feb Mar	24 9 54 22 22 38 24 11 23	24 4 35 22 20 14 24 12 23
3 18 31	MAY . JUNE . JULY .		24 6 41	3 11 58	APRIL MAY . JUNE .	23 0 7 22 12 51 21 1 35	23 4 15 22 19 8 21 8 34
	Aug SEPT OCT Nov	22 11 58 21 0 37 20 13 21 19 2 5	21 23 28 20 11 15 20 1 54 18 19 8		JULY . AUG SEPT. , OCT Nov	20 14 19 19 3 3 17 15 47 17 4 31 15 17 15	20 20 31 19 7 23 17 17 46 17 4 18 15 14 57
			20 10 01		DEC	15 5 59	15 2 4

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1430. E.	Jan Feb	d. h. m. 13 18 43 12 7 27	d. h. m. 13 13 37 12 1 48	B.C. 1427.	Jan Feb	d. h. m. 10 9 53	d. h. m. 10 21 25
April. d. h. m. 3 17 47	MAR APRIL	13 20 11 12 8 55	13 14 55 12 5 2	April. d. h. m. 3 11 13	MAR APRIL	8 22 37 10 11 21 9 0 5	9 7 56 10 16 33 9 0 2
	MAY . June . July .	11 21 39 10 10 23 9 23 7	11 20 4 10 11 28		MAY . JUNE .	8 12 49 7 1 33	8 7 17 6 15 24
	Aug Sept	9 25 7 8 11 51 7 0 85	10 2 38 8 16 59 7 6 22		JULY . AUG SEPT	6 14 17 5 3 1 3 15 45	6 1 25 4 14 12 3 5 55
	Oct Nov	6 13 19 5 2 3	6 18 49 5 6 33		Oct Nov	3 4 29 1 17 13	3 0 1 1 19 16
1429.	DEC	4 14 47 3 3 31	4 17 41 3 4 14		DEC	$  \begin{cases}  1 & 5 & 57 \\  30 & 18 & 41 \\  & \cdot  \end{cases} $	1 14 4 31 6 59
D.C.	FEB	$ \begin{cases} 1 & 16 & 16 \\ 2 & 5 & 0 \\ 31 & 17 & 44 \end{cases} $	1 14 19 2 0 23 31 10 59	1426. <sub>G</sub> .	JAN FEB MAR	29 7 25 27 20 9 29 8 54	29 21 6 28 8 18 29 17 5
2 23 36	APRIL MAY.	30 6 28 29 19 12	29 22 49 29 12 18	3 17 2	APRIL MAY .	27 21 38 27 10 22	28 0 16 27 6 55
	JUNE. JULY. Aug	28 7 56 27 20 40 26 9 24	28 3 24 27 19 36 26 12 4		JUNE. JULY.	25 23 6 25 11 50 24 0 84	25 14 10 24 23 3 23 10 32
	SEPT	24 22 8 24 10 52	25 4 1 24 18 51		AUG SEPT OCT	22 13 18 22 2 2 2	22 <b>1</b> 6 21 <b>18</b> 30
	Nov Dec	22 23 36 22 12 20	23 8 15 22 20 4		Nov Dec	20 14 46 20 3 30	20 <b>13</b> 44 20 <b>9</b> 13
1428. B.	JAN FEB MAR	21 1 4 19 13 48 21 2 33	21 6 23 19 15 29 20 23 56	1425. F.E.	JAN FEB MAR	18 16 14 17 4 58 17 17 43	19 <b>8</b> 17 17 18 42 18 <b>7</b> 2
8 5 21	APRIL MAY.	19 15 17 19 4 1	19 8 31 18 18 13	2 22 51	APRIL MAY.	16 6 27 15 19 11	16 16 35 16 0 13
	JUNE . JULY . AUG	17 16 45 17 5 29 15 18 13	17 5 55 16 20 2 15 12 23		JUNE . JULY . AUG	14 7 55 13 20 39 12 9 23	14 7 2 13 14 7 11 22 31
	SEPT Oot	14 6 57 13 19 41	14 6 10 14 0 15		SEPT	10 22 7 10 10 51	10 9 5 9 22 22
	Nov Dec	12 8 25 11 21 9	12 17 21 12 8 34		Nov Dec	8 23 35 8 12 19	8 14 22 8 8 27

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Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C.	T	d. h. m.	d. h. m.	B.C.	Т	d. h. m.	d. h. m. 4 12 4
1424.	Jan	7 1 3	7 3 24	1421. A.G.	JAN	4 16 12	
April.	FEB	5 13 47	5 21 42	April.	Feb	3 4 56	2 23 39
d. h. m.	MAR	7 2 31	7 14 3	d. h. m.	MAR	3 17 41	3 11 59
3 4 40	APRIL	5 15 15	6 3 41	2 22 6	APRIL	2 6 25	2 1 19
	MAY.	5 3 59	5 14 37		MAY .	$\int 1 19 9$	1 15 45
	June.	3 16 43	3 23 26			(31 7 53	81 6 58
	JULY.	3 5 27	3 7 9		June .	29 20 37	29 22 26
	Aug	f 1 18 11	1 14 50		JULY.	29 9 21	29 <b>18 29</b>
	Acc.	31 6 55	30 23 24		Aug	27 22 5	28 <b>3 39</b>
	SEPT	29 19 39	29 9 33		SEPT	26 10 49	26 <b>16 51</b>
	Oct	29 8 23	28 21 43		Ocr	25 23 33	26 5 <b>10</b>
	Nov	27 21 7	27 11 59		Nov	24 12 17	24 16 40
	DEC.	27 9 51	27 4 6		DEC	24 1 1	24 8 26
1423.	JAN	25 22 35	25 21 24	1420.	JAN	22 13 45	22 18 88
C.	FEB	24 11 19	24 14 52	F.	FEB	21 2 29	20 28 19
	MAR	26 0 4	26 7 27		MAR	22 15 14	22 9 18
3 10 29	APRIL	24 12 48	24 22 16	3 3 55	APRIL	21 3 58	20 20 12
	MAY .	24 1 32	24 10 55		MAY .	20 16 42	20 8 41
	June .	22 14 16	22 21 34		JUNE .	19 5 26	18 22 58
	JULY .	22 3 0	22 6 56		JULY .	18 18 10	18 14 48
	Aug	20 15 44	20 15 53		Aug	17 6 54	17 7 26
	SEPT.	19 4 28	19 1 13		SEPT.	15 19 38	16 0 2
	Ocr	18 17 12	18 11 26		Ост.	15 8 22	15 15 45
ĺ	Nov.	17 5 56	16 22 47		Nov.	13 21 6	14 6 5
	DEC.	16 18 40	16 11 22		DEC	18 9 50	18 18 44
1422.	JAN.	15 7 24	15 1 10	1419.	Jan	11 22 34	12 5 42
B.	FRB.	. 13-20-8	13 16 5	E.	FEB	10 11 18	10 15 18
	MAR.	15 8 52	15 7 45		MAR.	12 0 2	11 28 41
3 16 1	7 APRIL	13 21 36	13 23 41	8 9 44	APRIL	10 12 46	10 7 52
	MAY	. 13 10 20	13 15 6		MAY .	10 1 30	9 16 48
	JUNE	. 11 23 4	12 5 23		June .	8 14 14	8 8 14
1	JULY	. 11 11 48	11 18 17		JULY.	8 2 58	7 16 5
	Aug.		10 5 53		Aug.	6 15 42	6 7 27
	SEPT.	8 13 16	8 16 44	1	SEPT.	5 4 26	5 0 50
	OCT.	,	8 3 19	l	Oct.	4 17 10	4 19 8
1	Nov.	6 14 44	6 14 0		Nov.	3 5 54	3 18 <b>8</b>
	DEC.	. 6 3 28	6 0 55		DEC.	2 18 38	8 5 27
	1						
		1		11	j		ŀ

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Menn Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
,		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
B.C. 1418.	Jan	$\int 1 7 22$	1 19 31	1415. G.	JAN	27 11 16	27 16 27
D.		(30 20 6	31 7 5	April.	FEB	26 0 0 27 12 45	26 9 46 28 0 45
	FEB	(1 8 51	1 16 28	d. h. m.	MAR.	26 1 29	28 0 45   26 13 0
April.	MAR	30 21 35	31 0 16	3 8 59	APRIL MAY.	25 14 13	25 22 50
d. h. m. 3 15 33	APRIL	29 10 19	29 7 21		JUNE.	24 2 57	24 7 5
0 20 00	MAY.	28 23 3	28 14 49		JULY.	23 15 41	23 14 50
	June .	27 11 47	26 23 43		Aug.	22 4 25	21 23 3
	JULY .	27 0 31	26 11 4		SEPT.	20 17 9	20 8 31
	Aug	25 13 15	25 1 25		Oct.	20 5 53	19 19 43
	SEPT	24 1 59	23 18 33		Nov.	18 18 37	18 8 54
	Oct	23 14 43	23 13 31		DEC	18 7 21	17 23 59
	Nov	22 3 27	22 8 51				
	DEC	21 16 11	22 2 54	1414.	JAN	16 20 5	16 16 83
1417.	JAN	20 4 55	20 18 27	F.	FEB	15 8 49	15 9 49
C.B.	FEB	18 17 39	19 7 1		MAR.	16 21 34	17 2 47
	MAR.	19 6 24	19 16 49	<b>3 14 4</b> 8	APRIL	15 10 18	15 18 28
2 21 22	APRIL	17 19 8	18 0 35		MAY.	14 23 2	15 8 15 13 19 58
	MAY .	17 7 52	17 7 19		JUNE .	18 11 46	13 6 6
	JUNE .	15 20 36	15 14 7		JULY.	11 13 14	11 15 23
	July .	15 9 20	14 22 6		A.ug Sept	10 1 58	10 0 40
	Aug	13 22 4	13 8 17		OCT.	9 14 42	9 10 34
	SEPT	12 10 48	11 21 22		Nov.	8 8 26	7 21 24
	Oct	11 23 32	11 13 29		DEC.	7 16 10	7 9 18
	Nov.	10 12 16	10 7 59		220.		
	DEC	10 1 0	10 8 33	1413.	Jan	6 4 54	1
1416.	JAN	8 13 44	8 22 6	E.D.	FEB	4 17 88	
Δ.	FEB	7 2 28	7 15 11		MAR	5 6 22	
	MAR	8 15 12	9 4 59	2 20 37	APRIL	3 19 6	
3 3 10	APRIL	7 3 56	7 15 48		MAY .	3 7 50	
	MAY .	6 16 40	7 0 14		June .	1 20 34	
	JUNE .	5 5 24	5 7 22		JULY .	1 9 18	
	JULY.	4 18 8	4 14 16			29 10 46	
	Aug	8 6 52	2 22 1	ll .	AUG	29 10 40	
	SEPT	1 19 36	$\begin{cases} 1 & 7 & 33 \\ 30 & 19 & 31 \end{cases}$		OCT.	27 12 14	
1	Oct	1 8 20	30 10 11		3.7	26 .0 58	
	NT	130 21 4	29 8 16		DEC.	25 13 42	
	Nov.	28 22 32	28 21 49		1		
	DEC	20 22 32	20 21 45	1	1		l

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1412. c. April. d. h. m. 3 2 25	Jan Feb Mar April May . June . July . Aug Sept Oct	d. h. m. 24 2 26 22 15 10 24 3 55 22 16 39 22 5 23 20 18 7 20 6 51 18 19 35 17 8 19 16 21 3	d. h. m. 23 21 58 22 9 38 23 22 4 22 11 44 22 2 32 20 18 0 20 9 30 19 0 25 17 14 25 17 3 25	B.C. 1409. G.F. April. d. h. m. 2 19 52	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	d. h. m. 21 17 86 20 6 20 20 19 5 19 7 49 18 20 38 17 9 17 16 22 1 15 10 45 13 23 29 13 12 13	d. h. m.  22 5 48  20 16 5  21 0 26  19 7 87  18 14 88  16 22 88  16 8 42  14 21 84  13 18 27  13 7 47
	Nov Dec	15 9 47 14 22 31	15 15 27 15 2 36		Nov Dec	12 0 57 11 13 41	12 8 15 11 22 10
1411. B.	JAN FEB MAR	13 11 15 11 23 59 13 12 44	13 12 54 11 22 34 13 8 5	1408. E.	JAN FEB MAR	10 2 25 8 15 9 10 8 58	10 15 <b>4</b> 9 5 <b>5</b> 10 16 <b>6</b>
3 8 14	APRIL MAY. June.	12 1 28 11 14 12 10 2 56	11 18 11 11 5 38 9 18 55	3 1 41	APRIL MAY . JUNE .	8 16 37 8 5 21 6 18 5	9 0 41 8 7 48 6 14 21
	JULY . AUG SEPT	9 15 40 8 4 24 6 17 8	9 10 4 8 2 34		July . Aug	6 6 49 4 19 33 3 8 17	5 21 89 4 6 48 2 18 21
La mante de circa de la compansión de la	Oct Nov Dec	6 5 52 4 18 36 4 7 20	6 12 5 5 3 23		SEPT OCT Nov	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 9 2 1 2 80 80 21 48
1410.	Jan Feb	2 20 4	3 4 47	1407	DEC	30 11 13	80 17 4
3 14	MAR.	2 21 32	2 23 34	1407. D.	Jan Feb Mar	28 23 57 27 12 41 29 1 26	29 10 57 28 2 12 29 14 24
	MAY . JUNE .	i	30 1 12	3 7 30	APRIL MAY . June .	27 14 10 27 2 54 25 15 38	27 28 55 27 7 86 25 14 88
	July Aug. Sept.	. 27 1 5	6 26 19 33		JULY . AUG SEPT	25 4 22 23 17 6 22 5 50	24 21 58 23 6 34 21 17 22
-	Oct. Nov. Drc.	23 16	4 25 8 14 8 24 1 41		Oct Nov Dec	21 18 34 20 7 18 19 20 2	21 6 48 19 22 87 19 16 26
		1					

	Mean Vernal	Month.	Mean New	True New	Mean Vernal	Month.	Mean New	True New
:	Equinox.	MIOHOII.	Moon.	Moon.	Equinox.		Moon.	Moon.
-			7 7	7 7			d. h. m.	d. h. m.
	B.C.		d. h. m.	d. h. m.	B.C.	T		
	1406. c.	JAN	18 8 46	18 11 1	1403. F.	Jan Feb	14 23 56 13 12 40	14 20 38 13 7 41
	April.	FEB.	16 21 30	17 4 59 18 21 7	April.	MAR.	15 1 25	14 19 23
	d. h. m.	MAR	18 10 15		d. h. m. 3 6 45	APRIL	13 14 9	13 8 10
	3 13 18	APRIL	16 22 59	17 10 41 16 21 43	5 0 ±0	MAY.	13 2 53	12 22 17
ĺ	•	MAY .	16 11 43	15 6 45		JUNE .	11 15 37	11 13 27
		JUNE .	15 0 27	14 14 48		JULY.	11 4 21	11 5 8
		JULY.	14 13 11 13 1 55	12 22 52		Aug	9 17 5	9 20 40
		Aug.		11 7 48		SEPT.	8 5 49	8 11 27
		SEPT.	11 14 39 11 3 23	10 18 13		Oct	7 18 33	8 1 15
		OCT	9 16 7	9 6 23		Nov.	6 7 17	6 13 57
		Nov Dec	9 4 51	8 20 27		DEC.	5 20 1	6 1 36
		DEC	9 4 31	0 <u>2</u> 0 <u>21</u>				
	1405.	JAN	7 17 35	7 12 7	1402.	JAN	4 8 45	4 12 14
	B.A.	FEB	6 6 19	6 4 53	E.	FEB	2 21 29	2 21 59
		MAR	6 19 3	6 21 52		MAR	4 10 13	4 7 15
	2 19 7	APRIL	5 7 47	5 14 10	3 12 34	APRIL	2 22 57	2 16 43
		MAY .	4 20 31	5 <b>4</b> 56		MAY.	2 11 41	$\left  \begin{cases} 2 & 3 & 10 \\ 31 & 15 & 21 \end{cases} \right $
		June .	3 9 15	3 17 46		JUNE .	ſ 1 0 25	1
		JULY .	2 21 59	3 4 48	İ		130 13 9	1
1		Aug.	ſ 1 10 43	1 14 39		July.	30 1 53	29 21 37
		Aug.	130 28 27	31 0 5		Aug	28 14 37	28 14 42
		SEPT	29 12 11	29 9 50		SEPT.	27 3 21	1
		Oct	29 0 55	28 20 17		Oct.	26 16 5	
		Nov	27 13 39	27 7 38		Nov.	25 4 49	1
		DEC	27 2 23	26 19 55		DEC	24 17 33	25 3 28
	1404.	JAN	25 15 7	25 9 11	1401.	JAN	23 6 18	23 14 17
	G.	FEB	24 3 51	23 23 29	D.C.	FEB.	21 19 2	l l
		MAR	25 16 36	25 14 38		MAR.	22 7 46	22 7 29
	3 0 56	APRIL	24 5 20	24 6 14	2 18 23	APRIL	20 20 30	20 15 17
		MAY .	23 18 4	23 21 36		MAY .	20 9 14	19 28 51
		June .	22 6 48	22 12 7		JUNE.	18 21 58	18 10 10
		JULY.	21 19 32			JULY.	18 10 49	2 17 28 2
,		Aug				Avg	16 23 26	3 16 14 85
		SEPT.	1	1		SEPT	15 12 10	15 8 17
		Oct	18 9 44			Oct	15 0 54	1 15 2 59
		Nov	16 22 28	i		Nov	13 13 38	3 13 21 17
1		DEC	16 11 12	16 9 48		DEC	13 2 29	18 18 52
						•		
- 3	l		1	1	11			

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1400. B. April. d. h. m. 3 0 11	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	d. h. m.  11 15 6  10 3 50  11 16 85  10 5 19  9 18 3  8 6 47  7 19 31  6 8 15  4 20 59  4 9 43  2 22 27  { 2 11 11  81 23 55	d. h. m. 12 8 56 10 15 18 12 0 24 10 7 54 9 14 47 7 22 8 7 7 1 5 18 28 4 8 56 4 2 16 2 21 27 2 16 54	B.C. 1397. F.E. April. d. h. m. 2 17 38	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEFT Oct	d. h. m. 9 6 16 7 19 0 8 7 45 6 20 29 6 9 13 4 21 57 4 10 41 2 23 25 1 12 9  { 1 0 53 30 13 37 29 2 21	d. h. m.  9 5 36  7 28 50  8 16 52  7 7 42  6 19 59  5 6 0  4 14 36  2 22 44  { 1 7 20  30 17 6  30 4 27  28 17 30
1399. A.	JAN Feb	80 12 39	1 10 58 31 2 26 	1396. D.	DEC	28 15 5	28 8 13 27 0 15
8 6 0	MAR  APRIL MAY JUNE. JULY. AUG SEPT OCT Nov DEC	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	1 14 49 31 0 27 29 8 8 28 14 45 26 21 38 26 5 45 24 16 6 23 5 19 22 21 31 21 15 59	2 23 27	FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	25 16 83 27 5 17 25 18 1 25 6 45 23 19 29 23 8 13 21 20 57 20 9 41 19 22 25 18 11 9 17 28 53	25 16 59 27 9 84 26 1 6 25 14 57 24 3 1 23 13 36 21 28 24 20 9 8 19 19 22 18 6 18 17 18 1
1398. e.	Jan Feb Mar	19 21 28 18 10 12 19 22 56	20 6 8 18 22 42	1395. c,	Jan Feb Mar	16 12 38 15 1 22 16 14 6	16 6 34 14 20 8 16 10 30
8 11 49	MAY . JUNE . JULY . AUG SEPT OCT NOV	18 11 40 18 0 24 16 18 8 16 1 52 14 14 86 18 3 20 12 16 4 11 4 48	18 28 5 18 7 85 16 14 50 15 21 59 14 6 2 12 15 49 12 15 35 10 18 84	3 5 16	APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	15 2 50 14 15 84 18 4 18 12 17 2 11 5 46 9 18 80 9 7 14 7 19 58	15 1 48 14 17 12 13 8 17 12 22 26 11 11 29 9 28 31 9 10 56 7 22 1
	DEC	10 17 32	1		DEC	7 8 42	7 8 5

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
1394.	JAN	5 21 26	5 19 34	1391.	Jan	2 12 36	3 1 24
В.	FEB	4 10 10	4 6 12	E.	Гев	1 1 20	1 14 3
d. h. m	MAR	5 22 54	5 17 13	April. $d. h. m.$	MAR	2 14 4	3 0 6
3 11 4	APRIL	<b>4 1</b> 1 38	4 5 8	3 4 31	APRIL	$\int 1 248$	187
	May .	4 0 22	<b>3</b> 18 23	0 101		(30 15 32	30 15 6
	June .	2 13 6	2 8 59		MAY .	30 4 16	29 22 0
	July .	2 1 50 31 14 34	2 0 33 31 16 27		JUNE . JULY .	28 17 0 28 5 44	28 5 59 27 16 5
	Aug.	30 3 18	30 7 57		Aug	26 18 28	26 5 5
	SEPT.	28 16 2	28 22 34		SEPT	25 7 12	24 21 9
	OCT.	28 4 46	28 12 3		Oct	24 19 56	24 15 39
	Nov	26 17 30	27 0 20		Nov	23 8 40	23 11 13
	DEC	26 6 14	26 11 26		DEC	22 21 24	23 6 11
1393.	Jan.	24 18 59	24 21 28	1390.	JAN	21 10 8	21 23 1
A.G.	FEB	23 7 43	23 6 42	D.	FEB	19 22 52	20 12 53
	MAR.	23 20 27	23 15 42		MAR.	21 11 37	21 23 44
2 16 53	APRIL	22 9 11	22 1 19	3 10 20	APRIL	20 0 21	20 8 11
30	May .	21 21 55	21 12 25		MAY .	19 13 5	19 15 11
	JUNE .	20 10 39	20 1 33		JUNE .		17 21 52
	JULY.	19 23 23	19 16 48		JULY .	1	17 5 18
	Aug	18 12 7	18 9 39		Aug.	1	15 14 32
	SEPT	17 0 51	17 3 9		SEPT.	. 14 16 1	14. 2 22
	Oct	16 13 35	16 20 11		Ocr.		13 17 9
	Nov	15 2 19	15 11 54		Nov.	1	
	DEC	14 15 3	15 1 41		DEC.	. 12 6 18	12 5 89
1392.	JAN	13 3 47	13 13 23	1389.	Jan.	1	1
F.	FEB	11 16 31	11 23 9	C.B.	FEB.		_
	MAR.	1	13 7 30		MAR.		
2 22 49	2 APRIL	11 18 (	11 15 8	2 16 9	APRII		
	MAY	. 11 6 44	1 10 23 2		MAY	1	
	June	. 9 19 28	9 8 16		JUNE	L .	1
	JULY		2 8 19 47	·	July		
	Aug.	. 7 20 50	7 10 2	1	Aug.		3 4 5 4
	SEPT.	. 6 9 40	6 2 55	•	SEPT.		
	Ocr.	. 5 22 2	4 5 21 28	3	Ост.	2 13 3	$4 \begin{vmatrix} 2 & 1 & 4 \\ 31 & 15 & 1 \end{vmatrix}$
	Nov.	. 4 11 3	8 4 16 19 2 4 9 59	. 11	Nov.	$\cdot \left\{ \begin{smallmatrix} 1 & 2 & 1 \\ 30 & 15 \end{smallmatrix} \right.$	
	DEC.	1 5 25 3	£ ت عد ا	. 11	1	1 .	1

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1388. A. April. d. h. m. 2 21 57	JAN FEB MAR APRIL MAY . JUNE . JULY .	d. h. m. 28 16 30 27 5 14 28 17 58 27 6 42 26 19 26 25 8 10 24 20 54	d. h. m. 28 18 31 27 12 7 29 4 2 27 17 35 27 4 45 25 14 6 24 22 32	B.C. 1385. E.D. April. d. h. m. 2 15 24	Jan Feb Mar April May . June . July .	d. h. m. 26 7 40 24 20 24 25 9 8 23 21 52 28 10 36 21 23 20 21 12 4	d. h. m.  26 5 4  24 15 34  25 2 40  23 14 59  28 4 47  21 19 57  21 11 55
	Aug Sept Oct Nov Dec	28 9 38 21 22 22 21 11 6 19 28 50 19 12 34	28 7 0 21 16 18 21 2 56 19 15 7 19 4 52		Aug Sept Oct Nov Dec	20 0 48 18 13 32 18 2 16 16 15 0 16 3 44	20 3 58 18 19 22 18 9 42 16 22 46 16 10 28
1387. G.	Jan Feb Mar	18 1 19 16 14 3 18 2 47	17 20 4 16 12 15 18 4 47	1384. c.	JAN Feb Mar	14 16 28 13 5 12 14 17 57	14 20 54 13 6 15 14 15 3
3 3 46	APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	16 15 81 16 4 15 14 16 59 14 5 48 12 18 27 11 7 11 10 19 55 9 8 39 8 21 23	16 20 48 16 11 33 15 0 39 14 12 6 12 22 29 11 8 25 10 18 34 9 5 18 8 16 30	2 21 13	APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	13 6 41 12 19 25 11 8 9 10 20 53 9 9 87 7 22 21 7 11 5 5 23 49 5 12 38	13 0 2 12 10 7 10 22 5 10 12 19 9 4 35 7 22 6 7 15 46 6 8 27 5 23 21
1386. F.	JAN FEB MAR	7 10 7 5 22 51 7 11 36	7 4 25 5 17 7 7 6 49	1383. в.	JAN FEB	4 1 18 2 14 2	4 12 6 2 22 41
3 9 35		7 11 36 6 0 20 5 18 4 4 1 48 3 14 32 2 3 16 31 16 0 30 4 44 29 17 28 28 6 12 27 18 56	7 6 49 5 21 26 5 12 42 4 4 4 3 18 54 2 8 45 31 21 34 30 9 32 29 20 57 28 7 58 27 18 38	3 3 2	MAR APRIL MAY .  JUNE . JULY . AUG SEPT OCT Nov DEC	4 2 46 2 15 30 2 4 14 31 16 58 30 5 42 29 18 26 28 7 10 26 19 54 26 8 38 24 21 22 24 10 5	4 7 29 2 15 11 1 22 40 81 7 0 29 17 14 29 6 8 27 21 52 26 15 52 26 10 54 25 5 28 24 22 10

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1382. A. April. d. h. m. 3 8 50	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	d. h. m. 22 22 50 21 11 34 23 0 18 21 13 2 21 1 46 19 14 30 19 3 14 17 15 58 16 4 42 15 17 26 14 6 10	d. h. m. 23 12 11 21 23 22 23 8 11 21 15 28 20 22 11 19 5 29 18 14 26 17 2 0 15 16 37 15 10 6 14 5 24	B.C. 1379. p. April. d. h. m. 3 2 17	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	d. h. m: 19 14 0 18 2 44 19 15 28 18 4 12 17 16 56 16 5 40 15 18 24 14 7 8 12 19 52 12 8 36 10 21 20	d. h. m. 19 18 15 18 7 5 19 23 48 18 14 32 18 2 54 16 13 12 15 22 10 14 6 48 12 15 45 12 1 49 10 13 14
1381.	DEC	13 18 54 12 7 39	14 0 52 12 18 54	1378.	DEC	10 10 4 8 22 48	10 2 7 8 16 23
G.F.	FEB MAR	10 20 23 11 9 7	11 10 14 11 22 29	C.	FEB	7 11 32 9 0 17	9 0 2
2 14 39	APRIL	9 21 51	10 7 57	3 8 6	APRIL	7 13 1	7 16 13
	MAY .	9 10 35	9 15 30		MAY .	7 1 45	7 7 39
1.	June .	7 23 19	7 22 14		June.	5 14 29 5 3 13	5 21 41 5 10 7
	JULY.	7 12 3	7 5 14 5 13 33		Aug.	3 15 57	3 21 13
	Aug	6 0 47 4 13 31	4 0 6		SEPT.	2 4 41	2 7 31
	SEPT	4 2 15	3 13 28		DELL	( 1 17 25	
	Nov.	2 14 59	2 5 39		Oct.	81 6 8	1
		(2 3 43	2 0 1		Nov	29 18 53	29 15 15
	DEC.	₹31 16 27	31 19 12		DEC	29 7 37	29 2 41
1380.	JAN	30 5 11	30 13 39	1377.	JAN	27 20 21	27 14 44
E.	FEB	23 17 55		B.A.	FEB	26 9 5	1
	MAR.	30 6 39	$\begin{cases} 1 & 6 & 2 \\ 30 & 19 & 34 \end{cases}$		Mar	26 21 49	Į.
2 20 28	APRIL	28 19 23	29 6 18	2 13 55	APRIL	25 10 38	
	MAY .	28 8 7	28 14 53		MAY.	24 23 17	
	JUNE .	26 20 51	26 22 21		JUNE .	23 12 1	
	JULY.	26 9 35	26 5 47		JULY.	28 0 45	
	Aug	24 22 19	24 14 9		Aug	21 13 29 20 2 18	
1	SEPT	23 11 3	23 0 12		SEPT	19 14 57	
1	Ocr	22 23 47	22 12 26		Nov.	18 3 41	
	Nov.	21 12 31	21 2 58		DEC.	17 16 25	
	DEC	21 1 15	20 19 29				

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C.	#	d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
1376.	Jan	16 5 9	16 4 9	1373.	JAN	13 20 20	14 9 89
G.	FEB	14 17 53	14 14 18	D.C.	FEB	12 9 4	12 22 9
April. d. h. m.	MAR	16 6 38	16 0 46	April. $d. h. m.$	MAR	12 21 48	13 7 57
2 19 43	APRIL	14 19 22	14.12 9	2 13 10	APRIL	11 10 32	11 15 46
	MAY .	14 8 6	14 1 1		MAY .	10 23 16	10 22 34
	JUNE.	12 20 50	12 15 29		June .	9 12 0	9 5 25
	JULY.	12 9 34	12 7 13		JULY.	9 0 44	8 13 26
	Aug	10 22 18	10 23 33		AυG	7 13 28	6 23 39
,	SEPT.	9 11 2	9 15 37		SEPT	6 2 12	5 12 48
	Ост	8 23 46	9 6 50		Ocr	5 14 56	550
	Nov	7 12 30	7 20 44		Nov	4 3 40	8 28 85
	DEC	7 1 14	7 9 13		DEC	8 16 24	8 19 12
1375.	Jan	5 13 59	5 20 14	1372.	Jan	$\begin{cases} 2 & 5 & 8 \\ 81 & 17 & 52 \end{cases}$	2145
	FEB.	4 2 43	4 5 54	В.	FEB		1 6 49
0.100	MAR.	5 15 27	5 14 41			(2 6 37	2 20 33
3 1 32	1	4 4 11	3 23 14		MAR	(31 19 21	
	MAY .	3 16 55		2 18 59	APRIL	30 8 5	$  \begin{cases}  1 & 7 & 15 \\  80 & 15 & 86   \end{cases} $
	JUNE .	2 5 39			MAY.	29 20 49	29 22 87
	JULY .	31 7 7			JUNE .	28 9 33	28 5 25
	Aug.				JULY.	27 22 17	27 18 8
	SEPT.				Aug	26 11 1	25 22 81
	Ост.	27 21 19			SEPT	24 23 45	24 10 82
	Nov.	20.40			Oct	24 12 29	24 1 21
	DEC.	25 22 15	1		Nov	23 1 13	22 18 48
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1374.	JAN.	. 24 11 3	24 21 51		_		
E.	FEB.	. 23 0 1	23 7 20	1371.	JAN.	21 2 41	21 8 25
	MAR.	. 24 12 5	24 15 18		FEB	19 15 25	20 1 50
3 7 2	4			0.00	MAR	21 4 9	21 16 45
	MAY	1		8 0 48	APRIL	19 16 58	20 4 49
	JUNE	-			MAY .	19 5 87	19 14 24
	Julx				JUNE.	17 18 21	17 22 24
	Aug.				JULY.	17 7 5	17 5 5 <b>1</b>
	SEPT.	_			Aug.	15 19 49	15 18 50
	Oct.		7 17 5 15		SEPT	14 8 33	13 28 7
	Nov.			1	Oct.	13 21 17	13 10 19
	DEC.	15 78	5 15 18 14		Nov.	12 10 1	11 28 42
l <sub>-</sub>					DEC	11 22 45	11 15 10

Mean Vernal Equinox.	Month.	Mean New Moon,	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon,	True New Moon.
B.C. 1370.	JAN	d. h. m. 10 11 29	d. h. m. 10 8 13	B.C. 1367. c.	Jan	d. h. m. 7 2 40	d. h. m. 7 3 23
April. d. h. m. 3 6 36	MAR APRIL MAY . JUNE . JULY .	9 0 18 10 12 58 9 1 42 8 14 26 7 3 10 6 15 54	9 1 53 10 19 7 9 10 50 9 0 26 7 11 47 6 21 30	April. d. h. m. 3 0 3	MAR APRIL MAY. JUNE. JULY.	5 15 24 7 4 8 5 16 52 5 5 36 3 18 20 3 7 4	5 13 23 6 23 21 5 9 54 4 21 46 3 11 20 3 2 33
	Aug SEPT OCT Nov DEC	5 4 38 3 17 22 3 6 6 1 18 50 { 1 7 34 30 20 18	$5 6 22$ $3 15 17$ $3 0 59$ $\begin{cases} 1 11 46 \\ 80 23 52 \end{cases}$ $80 13 16$		Aug Sept Oct Nov Dec	$ \begin{cases} 1 & 19 & 48 \\ 81 & 8 & 32 \\ 29 & 21 & 16 \\ 29 & 10 & 0 \\ 27 & 22 & 44 \\ 27 & 11 & 28 \end{cases} $	1 18 50 81 11 23 80 3 28 29 18 13 28 7 34 27 19 15
1369. F.E.	Jan Feb Mar	29 9 2 27 21 46 28 10 31	29 3 53 27 19 29 28 11 33	1366. B.	JAN FEB MAR	26 0 12 24 12 56 26 1 40	26 5 26 24 14 25 25 22 45
2 12 25	APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	26 28 15 26 11 59 25 0 48 24 18 27 28 2 11 21 14 55 21 3 89	27	3 5 52	APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	24 14 24 24 3 8 22 15 52 22 4 36 20 17 20 19 6 4 18 18 48 17 7 32 16 20 16	24 7 18 23 17 4 22 4 53 21 19 10 20 11 41 19 5 37 18 23 44 17 16 49 17 7 54
1368. p.	Jan. Feb. Mar.	. 17 17 51 . 16. 6 85 . 17 19 19		A.G.	JAN FEB MAR	13 21 44	14 6 55 14 15 25
2 18 14		16 8 8 8 15 20 47 14 9 81 18 22 18 12 10 56 10 12 24 45 10 12 27	15 19 8 14 10 33 14 1 43 12 16 8 3 11 5 8 7 10 18 4 1 9 5 4	3 3 3 4 1 9 9	MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	11 0 41 10 13 25 9 2 9 7 14 55 7 3 3 5 16 2	12 6 1 10 14 12 10 0 23 8 13 21 7 5 17 7 6 23 38 1 5 18 52

Oct. 15 9 58 14 21 48 Nov. 19 22 42 13 18 52 Dec. 13 11 26 18 8 1 Dec. 10 13 52 10 18 15 Dec. 10 12 54 10 21 2 Mar. 12 1 39 12 18 18 April 10 14 23 11 2 40 May 10 3 7 10 13 26 June 8 15 51 8 22 12 July 8 4 35 8 5 56 Aug. 6 17 19 6 13 42 Sept. 5 6 3 4 22 26 Oct. 4 18 47 4 8 45 Nov. 3 7 31 2 21 8 Dec. 2 20 15 2 11 25 Oct. 2 20 15 5 5										
1364,	Vernal	Month.	New	New	Vernal	Month.	New	New		
1364.   Jan.	B.C.		d. h. m.	d. h. m.			d. h. m.	d. h. m.		
April, d, h, m, Mar 3 19 18 4 7 17 April, d, h, m, Mar 3 19 18 4 7 17 April, d, h, m, Mar 3 19 18 4 7 17 April,	1364.	JAN	3 17 49	4 6 22		T	(1 8 59	1 8 84		
April   April   April   2   8   2   15   58		FEB	2 6 33	2 20 16		JAN	30 21 48	80 20 47		
MAY . \begin{cases} \begin{array}{c c c c c c c c c c c c c c c c c c c		MAR	3 19 18	4 7 17	April.	FEB	29 10 28	29 1 <b>4 11</b>		
MAY	<b>2 1</b> 7 29	APRIL	2 8 2	2 15 53	d. h. m.	MAR	29 23 12	30 <b>6 37</b>		
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July			(31 9 30	31 5 37		May .	28 0 40	28 9 48		
Aug. 27 28 42 27 9 42 Sept. 26 12 26 26 0 29 Oct. 26 1 10 25 18 3 Nov. 24 13 54 24 18 22 Dec. 24 2 38 24 8 47  1363.  E. Feb. 21 4 6 21 17 52 Mar. 22 16 50 28 5 58 2 28 18 April 15 21 14 15 8 15 Oct. 18 19 26 18 18 8 1  1362.  D. C. 18 11 26 18 8 1  Nov. 19 22 42 18 18 22 Dec. 18 11 26 18 8 1  Aug. 12 1 39 12 18 18 B 5 7  Mar. 12 0 10 12 25 4  Mar. 12 1 39 12 18 18 B 5 7  Mar. 10 3 7 10 18 26 June 8 4 85 Aug. 6 17 19 6 18 42 Sept. 5 6 8 4 22 28 Oct. 4 18 47 4 8 45 Nov. 8 7 81 Dec. 2 20 15 58 Dec. 2 20 17 48 Doct. 19 6 82 Doct. 2 17 19 16 Doct. 19 6 82 Doct. 17 19 16 Doct. 19 0 28 Doct. 17 19 16 Doct. 19 0 28 Doct. 17 19 16 Doct. 19 0 28 Doct. 19 6 82 Doct. 17 19 16 Doct. 19 0 19 Doct. 19 17 19 16 Doct. 17 19 16 Doct. 17 19 16 Doct. 17 19 16 Doct. 19 19 0 28 Doct. 10 19 6 82 Doct. 10 19 10 12 Doct. 10 18 52 Doct. 10 18 15 Doct. 10 18 16 D		_	1			June .	26 13 24			
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2 28 18										
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Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1358. F. April. d. h. m. 3 4 23	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT	d. h. m. 27 12 58 26 1 37 27 14 22 26 3 6 25 15 50 24 4 34 23 17 18 22 6 2 20 18 46 20 7 30	d. h. m. 27 12 39 25 22 18 27 8 13 25 19 8 25 7 40 28 22 3 28 14 0 22 6 45 20 28 24 20 15 9	B.C. 1355. B. April. d. h. m. 2 21 49	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	d. h. m. 24 4 4 22 16 48 24 5 32 22 18 16 22 7 0 20 19 44 20 8 28 18 21 12 17 9 56 16 22 40	d. h. m.  24 17 45 28 6 5 24 15 41 22 23 19 22 6 0 20 12 52 19 20 58 18 7 21 16 20 40 16 12 58
	Nov Dec	18 20 14 18 8 58	19 5 26 18 18 0		Nov Dec	15 11 24 15 0 8	
1357. E.D.	JAN FEB MAR	16 21 42 15 10 26 15 23 10	17 4 51 15 14 11 15 22 33	1354.	JAN FEB MAR	13 12 52 12 1 36 13 14 20	12 14 27 14 4 2
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1356. c.	JAN FEB MAR	5 6 80 3 19 14 5 7 59 3 20 43	4 6 11 5 15 22	G.F.	Jan Feb	2 21 4 1 10 2 { 1 28 { 81 11 5	
	May June July	1 22 11	$\begin{cases} 1 & 13 & 33 \\ 30 & 22 & 30 \end{cases}$	3 6	MAY JUNE JULY	28 2	29 21 86 5 28 5 51 19 27 18 41
	Aug. Sept. Oct. Nov. Dec.	. 29 12 28 . 28 1 7 . 27 13 51 . 26 2 3	29 0 45 7 27 18 5 1 27 13 7 5 26 8 26	2 7 8	Aug. Sept. Oct. Nov. Dec.	24 16 1 24 5 22 17 4	38 25 22 2 17 24 7 39 1 28 18 59 15 22 8 18 29 21 28 25

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1352.	JAN	d. h. m. 20 19 13	d. h. m. 20 15 58	B.C. 1349.	Jan	d. h. m. 18 10 23	d. h. m. 18 12 1
E.	FEB	19. 7 57	19 9 8	B.A.	FEB	16 23 7	16 21 34
April.	MAR.	20 20 41	21 1 57	April.	MAR	17 11 51	17 7 0
d. h. m. 2 15 15	APRIL	19 9 25	19 17 30	d. h. m. 2 8 42	APRIL	16 0 35	15 17 4
	MAY .	18 22 9	19 7 10		MAY .	15 13 19	15 4 88
	June .	17 10 53	17 18 51		June .	14 2 3	13 17 56
	JULY .	16 23 37	17 4 58		JULY .	13 14 47	13 9 18
	Aug	15 12 21	15 14 19		Aug	12 3 31	12 1 50
	SEPT	14 1 5	13 23 43		SEPT	10 16 15	10 18 55
	Oct	13 13 49	13 9 44		Oct	10 4 59	10 11 29
	Nov	12 2 33	11 20 39		Nov	8 17 43	9 2 45
	DEC	11 15 17	11 8 35		Dec	8 6 27	8 16 18
1351.	JAN	10 4 2	9 21 35	1348.	JAN	6 19 11	7 3 56
D.	FEB	8 16 46	8 11 37	G.	FEB	5 7 56	5 13 52
	MAR.	10 5 30	10 2 37		MAR	6 20 40	6 22 27
2 21 4		8 18 14	8 18 12	2 14 31	APRIL	5 9 24	5 6 22
	MAY .	8 6 58	8 9 47		MAY .	4 22 8	4 14 84
	JUNE		7 0 43		June .	3 10 52	8 0 5
	July	}	6 14 28		JULY.	2 23 36	2 11 47
	Aug.		5 2 58	1 .	Aug	{ 1 12 20	1 2 9
	SEPT.	.	3 14 29			(31 1 4	30 18 56
		2 22 38	3 1 29		SEPT	29 13 48	29 18 15
1	Nov.	1 11 22	$ \begin{cases} 1 & 12 & 19 \\ 30 & 23 & 10 \end{cases} $		Ост	29 2 32	29 7 47
	DEC.	. 1 0 6	1		Nov	27 15 16	28 1 10
1		30 12 50	30 10 2	H	DEC	27 4 0	27 16 28
1350.	Jan.	. 29 1 34	28 21 6	1347.	JAN	25 16 45	26 4 58
С.	FEB.	. 27 14 18	27 8 38	F.	FEB	24 5 29	24 15 8
	MAR.	. 29 3 8	28 21 6	i	MAR	25 18 13	25 28 14
3 2 3			27 10 46	2 20 20	APRIL	24 6 57	24 6 20
	MAY			<b>:</b>	MAY .	23 19 41	23 13 22
	JUNE			<b>5</b>	JUNE .	22 8 25	21 21 28
	JULY		1	11	JULY .	21 21 9	21 7 40
	Aug.			13	Aug	20 9 53	19 20 46
	SEPT			11	SEPT	18 22 37	18 12 58
	Oct.	. 21 20 1		14	Oct	18 11 21	18 7 21
	Nov.			l l	Nov	17 0 5	17 2 52
	DEC.	. 19 21 3	9 20 1 49	3	DEC	16 12 49	16 21 48
<u></u>							

Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
Feb MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	18 14 17 15 8 1 13 15 45 13 4 29 11 17 13 11 5 57 9 18 41 8 7 25 7 20 9	d. h. m. 15 14 26 14 4 13 15 15 1 18 23 27 13 6 25 11 13 4 10 20 28 9 5 42 7 17 33 7 8 27	B.C. 1343. A. April. d. h. m. 2 19 35	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	d. h. m. 11 16 48 10 5 27 11 18 11 10 6 55 9 19 39 8 8 28 7 21 7 6 9 51 4 22 35 4 11 19 3 0 3	d. h. m. 11 11 32 10 4 13 11 21 6 10 18 16 10 3 56 8 16 41 8 3 42 6 13 35 4 23 8 4 8 59 2 19 81
DEC	5 21 37 4 10 22	5 21 19 4 16 36	1342.	DEC	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\$\begin{cases} 2 & 6 & 55 \\ 81 & 19 & 12 \\ 80 & 8 & 26 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
MAR	3 11 50 2 0 34 5 1 13 18	4 1 21 2 13 20 3 1 22 41	3 1 24	Mar.	$ \begin{cases} 1 & 3 & 0 \\ 30 & 15 & 44 \\ 29 & 4 & 28 \end{cases} $	28 22 41 30 13 46 29 5 19 28 20 38
JUNE . JULY . AUG SEPT OCT Nov	29 14 46 29 3 30 27 16 14 26 4 56 25 17 4 24 6 2	29 13 18 0 28 20 44 4 27 5 36 8 25 16 35 2 25 6 7 6 23 22 8	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	JUNE JULY AUG. SEPT. OCT. Nov.	. 27 5 56 . 26 18 40 . 25 7 24 . 23 20 8 . 23 8 52 . 21 21 36	25 12 46 24 0 15 2 23 11 19 3 21 22 18
FEB	20 20 3	88 21 4 1	7 F.E.	FEB.	. 18 11 49 19 0 39	18 6 46 18 18 24
MAY JUNE JULY AUG. SEPT. OCT. Nov.	20 22 20 10 5 18 28 5 18 12 5 17 1 15 18 15 2 13 15	51 20 20 3 35 19 5 3 19 18 18 3 3 16 21 4 47 15 6 5 31 14 17 2 15 13 5 4	22 22 27 28 38 52 26 44	May June June Aug Sept Oct. Nov	. 17 2 . 15 14 4 4 7 . 15 8 2 . 13 16 1 . 12 4 5 . 11 17 4 10 6 2	1 16 21 19 5 15 12 82 9 15 4 18 3 18 19 52 67 12 10 44 11 12 0 88 25 10 18 15
	JAN  FEB  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  SEPT  OCT  MAR  APRIL  MAY .  JUNE .  JUNE .  JAN  FEB  MAR  APRIL  MAY .  JUNE .  JULY .  SEPT  OCT  NOV  DEC  TEB  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  SEPT  OCT  NOV  TEB  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  SEPT  OCT  NOV  TOCT  NOV	Month. New Moon.    d. h. m.     Jan.   15   1   38     FeB.   13   14   17     Mar.   15   3   1     April   13   15   45     May   13   4   29     June   11   17   13     July   11   5   57     Aug.   9   18   41     Sept.   8   7   25     Oct.   7   20   9     Nov.   6   8   53     Dec.   5   21   37     Jan.   4   10   22     FeB.   2   23   6     Mar.   3   11   50     April   2   9   14   46     July   29   3   30     Aug.   27   16   1     Sept.   26   4   5     Oct.   25   17   4     Nov.   24   6   2     Dec.   23   19   1     Jan.   22   7   5     FeB.   20   20   5     Mar.   22   9   5     Mar.   22   9   5     June   18   28   1     July   18   12     Aug.   17   1     Sept.   15   13     Oct.   15   2     Nov.   13   15	Month. New Moon.    d. h. m.   d. h. m.     Jan.   15   1   33   15   14   26     Feb.   13   14   17   14   4   18     Mar.   15   3   1   15   15   1     April   13   15   45   13   23   27     May   13   4   29   13   6   25     June   11   17   13   11   13   4     July   11   5   57   10   20   28     Aug.   9   18   41   9   5   42     Sept.   8   7   25   7   17   38     Oct.   7   20   9   7   8   27     Nov.   6   8   58   6   2   5     Dec.   5   21   37   5   21   19    Jan.   4   10   22   4   16   36     Feb.   2   23   6   3   10   19     Mar.   3   11   50   4   1   21     April   2   0   34   2   13   20     May   3   10   2   31   6   18     July   29   3   30   28   20   44     Aug.   27   16   14   27   5   36     Sept.   26   4   58   25   16   35     Oct.   25   17   42   25   6   7     Nov.   24   6   26   23   22   8     June   29   24   25   6   7     Nov.   24   6   26   26   23   22   8     June   22   7   54   22   10   2     Feb.   20   20   38   21   4   1     Mar.   22   9   23   22   20   1     April   20   22   7   21   9   3     May   20   10   51   20   20   3     June   18   28   35   19   5   3     July   18   12   19   18   18   3     Aug.   17   1   3   16   21   4     Nov.   13   15   15   15   15   16   5     Toval   15   15   15   15   16   5     Toval   15   15   15   15   16   5     Toval   15   15   15   15   16   16     Toval   16   16   17   17   17   18   18   18     Aug.   17   18   15   15   15   16   15     Toval   18   15   15   15   15   16   16     Toval   18   18   18   18   18   18     Aug.   17   18   16   17     Toval   18   18   18   18     Aug.   17   18   18   18	Month. New Moon. New Moon. Vernal Equinox.    d. h. m.   d. h. m.	Month.   New Moon.   New Moon.   Wernal Equinox.   Month.   Moon.   Moon.   Equinox.   Month.	Month.   Mear   Moon.   Moor   Moon.   Moor   Moon.   Moon.

					<del></del> -		
nal M	onth.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
F	EB	d. h. m. 15 1 33 13 14 17 15 3 1	d. h. m. 15 14 26 14 4 13 15 15 1	B.C. 1343. A. April. d. h. m.	Jan Feb Mar	d. h. m. 11 16 43 10 5 27 11 18 11 10 6 55	d. h. m. 11 11 32 10 4 13 11 21 6 10 13 16
2 8 A A J J J J A S G G		13 15 45 13 4 29 11 17 13 11 5 57 9 18 41 8 7 25 7 20 9 6 8 58	13 23 27 13 6 25 11 13 4 10 20 28 9 5 42 7 17 33 7 8 27 6 2 5	2 19 35	MAY . JUNE . JULY . AUG SEPT OCT Nov	9 19 39 8 8 23 7 21 7 6 9 51 4 22 35 4 11 19 3 0 3	10 3 56 8 16 41 8 3 42 6 13 85 4 23 8 4 8 59 2 19 31
345.	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEFT	5 21 87 4 10 22 2 23 6 3 11 50 2 0 34 { 1 13 18 81 2 2 29 14 46 29 3 30 27 16 14 26 4 58	31 6 18 29 13 18 28 20 44 27 5 36	13 <b>42</b> . g. 3 1 24	JAN FEB MAR APRIL MAY . JUNE JULY AUG. SEPT.	27 5 56 26 18 40 25 7 24 23 20 8	29 5 19 28 20 88 27 11 9 27 0 31 25 12 46 3 24 0 15
13 <b>44</b> . в.	Oct Nov Dec Jan Feb	25 17 45 24 6 26 28 19 10 22 7 5 20 20 8	23 22 8 23 15 59 4 22 10 28 8 21 4 17	1341. F.E.	Nov. DEC. JAN. FEB.	. 18 11 4	21 22 18 21 9 1 5 19 19 47 9 18 6 46
2 18 46	MAR APRIL MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	20 22 20 10 5 18 23 8 18 12 1 17 1 15 18 4 15 2 3	7 21 9 89 1 20 20 35 1 9 5 86 9 18 18 3 3 16 21 44 17 15 6 5 18 18 5 4	2 7 1 2 2 7 3 3 2 2 6 4	MAY JUNE JULY AUG SEPT OCT. NOV	17 13 1 17 2 15 14 4 15 3 2 13 16 1 12 4 5 11 17 6	7 17 7 12 1 16 21 19 5 15 12 32 29 15 4 18 8 13 19 52 57 12 10 44 41 12 0 38
	Oct.	•	15 2 5 13 15	15 2 31 14 17 2 13 15 15 13 5 4	15 2 31 14 17 26 18 15 15 18 5 44	15 2 31 14 17 26 OCT. 18 15 15 18 5 44 18 3 59 12 19 51 DEC.	15 2 31 14 17 26 OCT 11 17 4 18 15 15 15 13 5 44 Nov 10 . 6 5 18 3 59 12 19 51 DEC 9 19

Mean Vernal Equinox,	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1340. D. April. d. h. m. 2 13 1	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	d. h. m. 8 7 58 6 20 37 8 9 21 6 22 5 6 10 49 4 23 33 4 12 17 3 1 1 1 13 45 { 1 2 29 30 15 13 29 3 57 28 16 41	d. h. m. 8 11 28 6 21 1 8 6 11 6 15 34 6 2 3 4 14 19 4 4 42 2 20 52 1 14 4 1 7 15 80 28 30 29 14 6 29 2 42	B.C. 1337. A.G. April. d. h. m. 2 6 27	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	d. h. m. 5 23 3 4 11 47 5 0 31 8 13 15 8 1 59 1 14 43  { 1 3 27 30 16 11 29 4 55 27 17 39 27 6 23 25 19 7 25 7 51	d. h. m. 6 10 24 5 1 39 5 18 50 3 28 16 3 6 46 { 1 13 26 30 20 23 30 4 40 28 15 13 27 4 39 26 21 2 25 15 36 25 10 59
1339. c.	JAN FEB	27 5 25 25 18 9	27 13 20 25 22 20	1336. F.	Jan Feb	23 20 35 22 9 19	24 5 32 22 21 54
2 18 50	MAR APRIL MAY JUNE JULY. AUG SEPT OCT NOV DEC		27 6 19 25 14 4 24 22 39 23 9 6 22 22 8 21 13 53 20 7 45 20 2 33 18 20 49 18 13 17	2 12 16	MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	28 22 4 22 10 48 21 28 32 20 12 16 20 1 0 18 13 44 17 2 28 16 15 12 15 3 56 14 16 40	24 11 22 22 21 55 22 6 18 20 18 34 19 20 47 18 4 56 16 14 57 16 8 16 14 18 2 14 10 56
1338. B.	Jan Feb Mar	16 14 14 15 2 58 16 15 42	17 3 9 15 14 21 16 23 15	1335. E.	Jan Feb Mar	13 5 24 11 18 8 13 6 52	13 5 4 11 23 19 13 16 8
3 0 39		18 5 54 12 18 38 11 7 22 9 20 6 9 8 50 7 21 34	15 6 88 14 18 28 12 20 51 12 5 54 10 17 83 9 8 15 9 1 47 7 21 3	2 18 5	APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	11 19 36 11 8 20 9 21 4 9 9 48 7 22 32 6 11 16 6 0 0 4 12 44 4 1 28	12 6 44 11 18 5 10 4 44 9 13 2 7 21 3 6 6 2 5 16 1 4 3 4 3 16 5

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C.		d. h. m.	d. h. m.	B.C. 1331.	Т	d. h. m.	d. h. m.
1334. D.	JAN	2 14 12	81 28 36	G.	JAN FEB	28 18 7 27 6 51	28 20 33
April.	FEB	1 2 56	•••	April.	Mar.	27 6 51 28 19 <b>3</b> 5	27 5 38 28 14 34
d. h. m.	MAR	2 15 41	2 16 15	d. h. m. 2 17 20	APRIL	27 8 19	27 0 11
2 28 54	APRIL	5 1 4 25	1 8 43		MAY .	26 21 3	26 11 21
2 20 02	*******	रि80 17 9	(108		JUNE.	25 9 47	25 0 36
	MAY .	80 5 58	(80 18 55		July .	24 22 31	24 16 0
	June.	28 18 37	29 1 55		Aug	23 11 15	23 8 59
	Jury.	28 7 21	28 12 82		SEPT	21 23 59	22 2 35
	Aug	26 20 5	26 22 25		Oct	21 12 43	21 19 39
	SEPT	25 8 49	25 8 16		Nov	20 1 27	20 11 18
	Oct	24 21 33	24 18 35		DEC	19 14 11	20 0 59
	Nov	28 10 17	23 5 34			i	
	DEC	22 28 1	22 17 17	1330.	JAN	18 2 55	18 12 32
1333.	JAN	21 11 46	21 5 48	F.	FEB	16 15 39	16 22 8
C.B.	FEB	20 0 80	19 19 14		MAR	18 4 24	18 6 20
	MAR	20 18 14	20 9 38	2 23 9	APRIL	16 17 8	16 13 54
2 5 48	APRIL	19 1 58	19 0 49		MAY .	16 5 52	15 21 48
	MAY .	18 14 42	18 16 16		JUNE.	14 18 36	14 7 8
	JUNE.	17 8 26	17 7 20		JULY.	14 7 20	13 18 48
	JULY.	16 16 10	16 21 80		Aug	12 20 4	12 9 16
	Aug	15 4 54	15 10 84		SEPT	11 8 48	11 2 20
	SEPT	18 17 88	18 22 41		Oct	10 21 32	10 21 1
	Ocr	13 6 22	18 10 10		Nov.	9 10 16	9 15 52
	Nov	11 19 6	11 21 16		DEC	8 23 0	9 9 29
	DEC	11 7 50	11 8 7	1329.	JAN	7 11 44	8 0 44
1332.	JAN	9 20 34	9 18 48	E.D.	FEB	6 0 28	6 13 10
۸.	FEB	8 9 18	8 5 17		MAR	6 13 12	6 23 1
	MAR	9 22 2	9 16 14	2 4 58	APRIL	5 1 56	5 6 54
2 11 82	APRIL	8 10 46	8 4 8		MAY .	4 14 40	4 13 47
	MAY .	7 23 80	7 17 28		JUNE .	8 8 24	2 20 43
	JUNE .	6 12 14	6 8 2		JULY.	2 16 8	2 4 48
	JULY .	6 0 58	5 28 41		Aug	1 4 52	<b>\ 31 15 6</b>
	Aug	4 13 42	4 15 40		2.00.	(30 17 36	30 4 19
	SEPT	8 2 26	8 7 18		SEPT	29 6 20	28 20 36
	Ocr	2 15 10	2 21 58		Oct	28 19 4	28 15 15
	Nov.	1 8 54	1 11 22		Nov.	27 7 48	27 10 50
	1107.	(80 16 88	1		DEC	26 20 32	27 5 42
	DEC	80 5 22	30 10 37				
		·					

Mean Vernal Equinox.	Month.	Mean New Moon,	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C.		d. h. m.	d. h. m.	B.C.	JAN	d. h. m.	d. h. m.
1328.	JAN	25 9 16	25 22 20	1325. g.f.	FEB.	21 13 10	21 11 80
April.	FEB	23 22 0	24 11 58	April.	MAR.	22 1 55	22 8 59
d. h. m.	MAR	25 10 45	25 22 38	d. h. m.		20 14 39	20 19 58
2 10 47	APRIL	23 23 29	24 6 55	2 4 13	APRIL May .	20 3 23	20 10 88
	MAY .	23 12 13	23 13 52			18 16 7	18 28 85
	JUNE.	22 0 57	21 20 34		June.	18 4 51	18 11 4
	JULY.	21 13 41	21 4 9		JULY.	16 17 85	16 21 29
	Aug	20 2 25	19 13 34		Aug	15 6 19	15 7 81
	SEPT	18 15 9	18 1 36		SEPT	14 19 3	14 17 46
	Oct	18 3 53	17 16 35		Oct	13 7 47	18 4 28
	Nov.	16 16 37	16 10 9		Nov.	12 20 81	12 15 46
	DEC	16 5 21	16 5 14		DEC	12 20 01	12 10 20
1327.	JAN	14 18 6	15 0 18	1324.	JAN	11 9 15	11 888
В.	FEB	13 6 50	13 17 47	E.	FEB	9 21 59	9 16 18
	MAR.	14 19 34	15 8 40		MAR	11 10 48	11 555
2 16 36	APRIL	13 8 18	13 20 35	2 10 2	APRIL	9 23 27	9 20 80
	MAY .	12 21 2	13 5 57		MAY.	9 12 11	9 11 45
	JUNE .	11 9 46	11 13 43		JUNE.	8 0 55	8 8 7
	JULY.	10 22 30	10 20 57		JULY .	7 13 39	7 17 57
Ì	Aug	9 11 14	9 4 42		Aug	6 2 23	6 7 50
	SEPT	7 23 58	7 13 50		SEPT	4 15 7	4 20 42
	Ocr	7 12 42	7 1 2		Oct. ,	4 8 51	4 8 44
	Nov	6 1 26	5 14 35		Nov	2 16 35	2 20 11
	DEC	5 14 10	5 6 23		_	2 5 19	2 7 12
1000	1_	,			DEC	31 18 3	31 17 48
1326.	JAN.	4 2 54	3 23 51				
	FEB.	, oo	2 17 55	1323.	JAN	30 6 47	30 4 9
2 22 25	MAR.	•	4 11 23	D.	FEB	28 19 32	28 14 84
2 22 25	APRIL		3 3 8		MAR.	30 8 16	30 1 39
	MAY	2 5 50	<b>2 1</b> 6 32	2 15 51	APRIL	28 21 0	28 18 58
	T	(31 18 34	1 1 3 35		MAY .	28 9 44	1
	JUNE		30 12 54	11	JUNE .	26 22 28	I
	Aug.			11	JULY.	26 11 12	1
	SEPT.			31	AυG	24 23 56	
	OCT.	20.40		H	SEPT	23 12 40	
	Nov.	1		()	Oct	23 1 24	
	DEC.	00		11	Nov.	21 14 8	
	1	- 47 11 42	24 4 14	•	DEC	21 2 52	21 9 42
<u> </u>	1				1		

Mean Vernal Equinox.	Month.	Mean New Moon,	True New Moon,	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon,
B.C. 1322. c.	Jan	d. h. m. 19 15 36	d. h. m. 19 20 1	B.C. 1319. F.	Jan	d. h. m. 16 6 46	d. h. m. 16 18 18
April. d. h. m. 2 21 40	FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT	18 4 21 19 17 5 18 5 49 17 18 88 16 7 17 15 20 1 14 8 45 12 21 29	18 5 16 19 18 56 17 22 52 17 9 0 15 21 4 15 11 26 14 8 52 12 21 81	April. d. h. m. 2 15 6	FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT	14 19 80 16 8 15 14 20 59 14 9 48 12 22 27 12 11 11 10 23 55 9 12 39	15 9 25 16 21 27 15 6 45 14 14 13 12 20 56 12 4 1 10 12 30 8 23 16
1321.	Oct Nov Dec	12 10 13 10 22 57 10 11 41 9 0 25	12 15 14 11 7 55 10 22 44 9 11 18	1318.	OCT Nov DEC	9 1 23 7 14 7 7 2 51 5 15 35	8 12 50 7 5 11 6 28 36 5 18 44
B.A. 2 8 29	FEB MAR	7 13 9 8 1 53 6 14 37	7 21 43 8 6 21 6 13 56	2 20 55	FEB MAR APRIL	4 4 19 5 17 8 4 5 47	4 13 2 6 5 13 4 18 32
2 5 29	MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	6 14 37 6 3 21 4 16 5 4 4 49 2 17 33 (1 6 17 30 19 1 30 7 45 28 20 29 28 9 13	5 21 24 4 5 48 3 16 10 { 2 5 15 81 21 11 80 15 21 80 10 29 29 5 0 28 21 88	2 20 55	MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	3 18 31 2 7 15 1 19 59 31 8 43 29 21 27 28 10 11 27 22 55 26 11 39 26 0 28	4 5 7, 2 13 37 1 21 7 31 4 88 29 18 8 27 28 23 27 11 47 26 2 25
1320. G.	JAN FEB MAR	26 21 57 25 10 41 26 23 26	27 11 22 25 22 20 27 7 0	1317. D.C.	Jan Feb Mar	24 13 7 23 1 51 23 14 36	1
2 9 18	APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	25 12 10 25 0 54 28 13 38 28 2 22 21 15 6 20 8 50 19 16 34 18 5 18 17 18 2	25 14 11 24 20 54 28 4 15 22 13 22 21 1 8 19 15 59 19 9 39 18 5 1 18 0 27	2 2 44	APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	22 3 20 21 16 4 20 4 48 19 17 32 18 6 16 16 19 0 16 7 44 14 20 28 14 9 12	22 1 47 20 12 1 19 21 1 18 5 39 16 14 49 16 1 1 14 12 32

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon,
B.C. 1316.	Jan	d. h. m. 12 21 56	d. h. m. 12 15 43	B.C. 1313.	Jan	d. h. m.	d. h. m.
в.	FEB.	11 10 41	11 7 9	F.E.	FEB	9 1 50	9 4 54
April.	MAR.	12 23 25	12 23 15	April.	MAR.	9 14 34	9 18 88
d. h. m. 2 8 33	APRIL	11 12 9	11 15 21	d. h. m. 2 1 59	APRIL	8 3 18	7 22 2
	MAY .	11 0 53	11 6 41		MAY.	7 16 2	7 7 15
	June .	9 13 37	9 20 40		June .	6 4 46	5 18 9
	JULY.	9 2 21	9 9 5		JULY.	5 17 30	5 7 21
	Αυς	7 15 5	7 20 12		Aug	4 6 14	8 22 55
	SEPT	6 3 49	6 6 38		SEPT	2 18 58	2 16 16
	Ост	5 16 33	5 16 57			(2 7 42	2 10 18
	Nov	4 5 17	4 3 31		Oct	{31 20 26	(1 8 51
	DEC	3 18 1	3 14 30		Nov.	30 9 10	30 19 49
:					DEC	29 21 54	30 9 34
1315.	Jan	§ 2 6 45	2 1 56				
Α.		(31 19 29	31 13 54	1312.	JAN	28 10 38	28 20 56
	FEB	•••		D.	FEB	26 23 22	27 6 14
	MAR.	§ 2 8 13	2 2 44		MAR	28 12 7	28 14 7
	MAR	(31 20 57	31 16 33	2 7 48	APRIL	27 0 51	26 21 21
2 14 22	APRIL	30 9 41	30 7 21		MAY.	26 13 35	26 5 2
	MAY .	29 22 25	29 22 41		June .	25 2 19	24 14 15
	June .	28 11 9	28 13 57		JULY.	24 15 3	24 1 57
	July.	27 23 53	28 4 36		Aug	23 3 47	22 16 38
	Aug	26 12 37	26 18 16		SEPT	21 16 31	21 9 51
i	SEPT	25 1 21	25 6 59		Oct	21 5 15	21 4 49
	Ост.	24 14 5	24 18 54		Nov	19 17 59	19 28 57
	Nov	23 2 49	23 6 13		DEC	19 6 43	19 17 42
	DEC.	22 15 33	22 16 59	1011	T	15 10 05	10 0 55
1314.	JAN.	21 4 17	21 3 16	1311. c.	JAN	17 19 27 16 8 11	18 8 55 16 21 12
G.	FEB.		19 13 20		FEB		18 6 49
	MAR.	1	1	2 13 37	APRIL	17 20 56 16 9 40	16 14 81
2 20 11	APRIL	19 18 30	1	2 10 01	MAY .	15 22 24	15 21 15
	MAY .	19 7 14	1		JUNE .	14 11 8	14 4 9
	JUNE	. 17 19 58	1 -		JULY.	13 23 52	13 12 16
	JULY	. 17 8 42	ł			12 12 36	11 22 41
	Aug.	. 15 21 26	1		Aug Sept	11 1 20	10 12 4
	SEPT.	. 14 10 10	1		Oct.	10 14 4	10 12 4
	Ост.	. 13 22 54	1		Nov.	9 2 48	8 28 12
	Nov.	. 12 11 38	1		DEC.	8 15 32	8 18 48
1	DEC.	. 12 0 22	-		JEU.	0 10 52	0 10 40

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1310. B.	Jan Feb	d. h. m. 7 4 16 5 17 0	d. h. m. 7 13 35 6 6 6	B.C. 1307. E.	Jan Feb	d. h. m. 3 19 26 2 8 10	d. h. m. 3 12 36 2 3 11
April. $d. h. m.$	MAR.	7 5 44	7 19 35	April. $d. h. m.$	MAR	3 20 54	3 18 43
2 19 26	APRIL	5 18 28	6 6 5	2 12 52	APRIL	2 9 38	2 10 41
	MAY.	5 7 12	5 14 20		MAY.	$\begin{cases} 1 & 22 & 22 \\  & & \end{cases}$	2 2 24
	June.	3 19 56	3 21 18		_	(31 11 6	31 17 8
	Jury.	3 8 40	<b>3 4</b> 9		JUNE.	29 23 50	30 6 30
	Aug	5 1 21 24	1 11 55		JULY.	29 12 34	29 18 29
		(31 10 8	30 21 34		Aug	28 1 18	28 5 28
	SEPT	29 22 52	29 9 47		SEPT	26 14 2	26 16 2
1	Oct	29 11 36	29 0 48		Oct	26 2 46	26 2 37
1	Nov	28 0 20	27 18 15		Nov	24 15 30	24 13 26
	DEC	27 13 4	27 13 5		DEC	24 4 14	24 0 32
1309.	JAN	26 1 48	26 7 51	1306.	JAN	22 16 58	22 11 59
A.G.	FEB	21 14 32	25 1 5	D.	FEB	21 5 42	21 0 3
	MAR.	25 3 17	25 15 48		MAR	22 18 27	22 13 4
2 1 15	APRIL	23 16 1	24 3 42	2 18 41	APRIL	21 7 11	21 3 10
	MAY .	23 4 45	23 13 11		MAY .	20 19 55	20 18 11
	June .	21 17 29	21 21 9		JUNE .	19 8 39	19 9 38
,	JULY.	21 6 13	21 4 40	Ì	July.	18 21 23	19 0 51
	Aug	19 18 57	19 12 46		Aug	17 10 7	17 15 18
	SEPT	18 7 41	17 22 14		SEPT	15 22 51	16 4 46
	Oct	17 20 25	17 9 36		Oct	15 11 35	15 17 20
	Nov	16 9 9	15 23 6		Nov	14 0 19	14 5 6
	DEC	15 21 53	15 14 38		DEC	13 13 3	13 16 9
1308.	JAN	14 10 37	14 7 40	1305.	JAN	12 1 47	12 2 31
F.	FEB	12 23 21	13 1 15	C.B.	FEB	10 14 31	10 12 25
	MAR	14 12 6	14 18 21		MAR	11 3 16	10 22 18
2 7 4	APRIL	13 0 50	13 9 54	2 0 30	APRIL	9 16 0	9 8 50
	MAY .	12 13 34	12 23 21		MAY .	9 4 44	
	June .	11 2 18	11 10 39		June .	7 17 28	
	JULY .	10 15 2	10 20 21		JULY .	7 6 12	
1	Aug.	9 3 46	9 5 17	11	Aug	5 18 56	<b>t</b>
i	SEPT	7 16 30	7 14 20		SEPT	4 7 40	
	Oct	7 5 14	7 0 7		Oct.	3 20 24	1
	Nov.	5 17 58	5 11 2		Nov.	1	1
	DEC.	5 6 42	4 23 11		DEC.	$ \begin{cases} 1 & 21 & 52 \\ 31 & 10 & 36 \end{cases} $	
1	1	ļ	1	II	1	1	1

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon,	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
B.C. 1304.	JAN	29 23 20	30 4 30	1301.	JAN	27 14 30	28 2 3
Α.	FEB.	28 12 4	28 13 20	E.D.	FEB	26 3 14	26 17 1
April.	MAR	30 0 <b>4</b> 8	29 21 35	April.	MAR	26 15 58	27 4 54
d. h. m. 2 6 <b>1</b> 9	APRIL	28 13 32	28 6 7	1 23 45	APRIL	25 4 42	25 14 8
	MAY .	28 2 16	27 15 55		MAY .	24 17 26	24 21 37
	JUNE .	26 15 0	26 3 53		June .	23 6 10	28 4 26
	JULY .	26 3 44	25 18 20		July.	22 18 54	22 11 44
	Aug	24 16 28	24 11 1		Aug	21 7 38	20 20 29
	SEPT	23 5 12	28 5 5		Sept	<b>1</b> 9 <b>2</b> 0 22	19 7 26
	Oct	22 17 56	22 23 15		Ост	<b>1</b> 9 9 6	18 21 6
	Nov	21 6 40	21 16 17		Nov	17 21 50	17 13 22
	Dec	20 19 24	21 7 15		DEC	<b>17</b> 10 34	17 7 84
1303.	JAN	19 8 9	19 19 46	1300.	Jan	15 23 18	16 2 28
G.	FEB	17 20 53	18 5 55	С.	Fев	14 12 2	14 20 24
	MAR	19 9 37	19 14 15		Mar	16 0 47	16 12 22
2 12 8	APRIL	17 22 21	17 21 32	2 5 34	APRIL	14 13 31	15 1 37
	MAY .	17 11 5	17 4 45		MAY .	14 2 15	14 12 15
	June.	<b>1</b> 5 <b>2</b> 3 49	15 13 0		June.	12 14 59	12 20 58
	July .	15 12 33	14 23 21		JULY.	12 3 43	12 4 44
	Aug	14 1 17	13 12 32		Aug	10 16 27	10 12 37
	SEPT	12 14 1	12 4 41		Sept	9 5 11	8 21 29
	Ост	12 2 45	11 23 6		Ост	8 17 55	8 7 58
	Nov	10 15 29	10 18 28		Nov	7 6 39	6 20 24
	DEC	10 4 13	10 13 9		Dec	6 19 23	6 10 51
1302.	JAN	8 16 57	9 5,44	1299.	JAN	5 8 7	5 3 0
1	FEB	7 5 41	7 19 26	В.	FEB	3 20 51	3 20 11
	MAR.	8 18 26	9 6 14		Mar	5 9 35	5 13 26
2 17 57		7 7 10	7 14 40	2 11 23	APRIL	3 22 19	4 5 44
	MAY .	6 19 54	6 21 40		MAY .	3 11 3	3 20 15
	JUNE .	5 8 38	5 4 19	•	JUNE.	1 23 47	2 8 42
	JULY.	4 21 22	4 11 43		Torray	1 12 31	1 19 17
	Aug	3 10 6	2 20 57		JULY.	(31 1 15	31 4 48
	SEPT	1 22 50	1100 00 70		Aug	29 13 59	29 13 51
	Oct	1 11 34	1		SEPT	28 2 43	27 23 25
	N	(31 0 18	00 0.		Oct	27 15 27	27 9 5 <b>O</b>
	Nov	1			Nov	26 4 11	25 21 2 <b>2</b>
1	DEC	29 1 46	29 8 20		DEC.	25 16 55	25 9 58
	1	1	ļ				

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	· Month.	Mean New Moon.	True New Moon.	
	,	d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.	
B.C. 1298.	JAN	24 5 39	23 23 44	1295.	Jan	20 20 49	21 3 56	
Α.	FEB	22 18 23	22 14 32	D.	FEB	19 9 33	19 13 8	
April.	MAR.	24 7 8	24 6 7	d. h. m.	MAR	20 22 18	20 21 23	
d. h. m. 2 17 12	APRIL	22 19 52	22 21 53	2 10 38	APRIL	19 11 2	19 5 28	
	MAY .	22 8 36	22 13 10		MAY .	18 23 46	18 14 22	
	June .	20 21 20	21 3 25		June.	17 12 30	17 1 4	- i
	JULY .	20 10 4	20 16 16		JULY.	17 1 14	16 14 15	- 1
	Aug	18 <b>22 4</b> 8	19 3 59		Aug	15 13 58	15 6 0	ļ
	SEPT	17 11 32	17 14 57		SEPT	14 2 42		
	Ocr	17 0 16	17 1 43		Oct	13 15 26	1	
- ,	Nov	15 13 0	15 12 28		Nov.	12 4 10	1	
	DEC	15 1 44	14 23 22		DEC	11 16 54	12 4 17	
1297.	JAN	13 14 28	13 10 27	1294.	JAN	10 5 38	10 18 2	2
G.F.	FEB.	12 3 12	11 21 54	c.	FEB	8 18 22	9 5 14	1
	MAR	12 15 57	12 10 7		MAR.	10 7 7	7   10 14 1	5
1 23 1		11 4 41	10 23 25	2 16 27	APRIL	8 19 5	L 8 21 4	3
0 -	May .	10 17 25	10 13 51		MAY .	8 8 3	l l	į.
	June.	9 6 9	9 5 9		JUNE .	6 21 1	1	- 1
	July.	8 18 53	8 20 41		JULY .	6 10	8 5 21 2	9
	Aug	7 7 37	7 11 48		Aug.	4 22 4	7 4 9 1	4
	SEPT	5 20 21	6 2 5	\\	SEPT.	3 11 3	- 0 "	0
	Oct	5 9 5	5 15 22		Ocr.	3 0 1	1	- 1
	Nov.	3 21 49	4. 3 43	:	Nov.	1 12 5		13
	DEC.	3 10 38	3 15 10	·	DEC.	1 1 4		2
				.	DEC.	(30 14 2	27 31 1 5	52
1296.	JAN.	$\int$ 1 23 1	1	11	T	29 3 1	1 29 16 5	58
E.		(31, 12	1 31 11 42	1293. B.A.	JAN.	.   [[ ]] -		6
	FEB.			.	FEB.		1	
	MAR.	{ 2 0 4		` <b>\</b>				1
		01 10 1		li .	MAY		7 26 4	41
2 4 5	ĺ	1		. 11	June			ļ
	MAY			- []	JULY		35 23 19	
	June			3	Aug.	20.00	19 22 6	
1	July			11	SEPT.	0.4	3 20 19	
	Aug.	.	T   T	8	Oct.		47 20 12	
	SEPT.			ii ii	Nov.			11
	Ocr.	. 24 6 9		!	~	10.09	0	42
	Nov.		-	11	DEC.	. 18 25		
	Dec.	. 22 8	5 22 17 1	±				

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1292. g. April. d. h. m. 2 4 5	Jan Feb Mar April	d. h. m. 17 11 59 16 0 43 17 13 28 16 2 12	d. h. m. 17 21 20 16 13 41 18 3 3 16 13 29	B.C. 1289. D.c. April. d. h. m. 1 21 31	JAN FEB MAR APRIL	d. h. m. 15 3 9 13 15 53 14 4 38 12 17 22	d. h. m. 14 20 50 13 10 50 14 1 48 12 17 20
	MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	15 14 56 14 3 40 13 16 24 12 5 8 10 17 52 10 6 36 8 19 20 8 8 4	15 21 42 14 4 47 13 11 50 11 19 52 10 5 46 9 18 7 8 9 7 8 2 22		MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	12 6 6 10 18 50 10 7 34 8 20 18 7 9 2 6 21 46 5 10 30 4 23 14	12 8 58 10 28 46 10 18 30 9 2 2 7 13 36 7 0 40 5 11 32 4 22 23
1291. F. 2 9 58	Jan Feb Mar April May . June .	6 20 48 5 9 32 6 22 17 5 11 1 4 23 45 3 12 29	6 20 52 5 15 16 7 8 15 5 22 50 5 10 46 3 20 24	1288. B. 2 3 20	Jan Feb Mar April	3 11 58 2 0 42 3 13 27 2 2 11 { 1 14 55 31 3 39	3 9 13 1 20 18 3 7 43 1 20 8 1 9 48 31 0 39
	Aug Sept Oct Nov Dec	3 1 13 (1 13 57 31 2 41 29 15 25 29 4 9 27 16 58 27 5 37	3 4 39 1 12 33 30 21 1 29 6 47 28 18 17 27 7 40 26 22 51		JUNE . JULY . AUG SEPT OCT Nov DEC	29 16 28 29 5 7 27 17 51 26 6 35 25 19 19 24 8 3 28 20 47	29 16 18 29 7 49 27 22 51 26 12 56 26 2 0 24 14 0 24 1 2
1290. E. 2 15 42	JAN FEB MAR APRIL MAY .	25 18 21 24 7 5 25 19 49 24 8 33 23 21 17	25 15 21 24 8 26 26 1 8 24 16 34 24 6 7	1287. A. 2 9 9	JAN FEB MAR APRIL MAY .	22 9 31 20 22 15 22 10 59 20 23 43 20 12 27	22 11 6 20 20 84 22 5 54 20 15 57 20 3 29
	JUNE . JULY . AUG SEPT OCT Nov DEC	22 10 1 21 22 45 20 11 29 19 0 13 18 12 57 17 1 41 16 14 25	22 17 48 22 3 52 20 13 17 18 22 48 18 8 55 16 19 55 16 7 52		JUNE . JULY . AUG SEPT OCT Nov DEC	19 1 11 18 13 55 17 2 39 15 15 23 15 4 7 18 16 51 13 5 35	18 16 58 18 8 23 17 1 8 15 18 17 15 10 53 14 2 9 13 15 35

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1286.	Jan	d. h. m.	d. h. m.	B.C. 1283.	Jan	d. h. m. 8 9 29	d. h. m. 8 16 6
G.	FEB.	10 7 3	10 12 52	C.	FEB	6 22 13	7 9 37
April.	MAR.	11 19 48	11 21 19	April.	MAR.	8 10 58	9 0 27
d. h. m. 2 14 58	APRIL	10 8 32	10 5 10	d. h. m. 2 8 24	APRIL	6 23 42	7 12 14
2 19 00	MAY .	9 21 16	9 13 20	2 0 23	MAY.	6 12 26	6 21 27
	JUNE.	8 10 0	7 22 56		JUNE .	5 1 10	5 5 1
	July.	7 22 44	7 10 48		JULY.	4 13 54	4 12 3
·	Aug.	6 11 28	6 1 21		Aug.	3 2 38	2 19 37
	SEPT.	5 0 12	4 18 19	ļ	SEPT.	1 15 22	(1 4 38
	Oct .	4 12 56	4 12 46		DEI I.	(1 4 6	30 15 49
	Nov.	3 1 40	3 7 20		Oct	30 16 50	30 5 31
	DEC.	2 14 24	3 0 38		Nov:	29 5 34	28 21 38
	DEC.	2 11 21	0 000		DEC.	28 18 18	28 15 30
1005	_	(1 3 8	1 15 41		220	=====================================	20 20 00
1285. F.E.	JAN	{30 15 52	31 4 5	1282.	Jan	27 7 2	27 9 55
	FEB	29 4 36	29 13 59	в.	FEB	25 19 46	26 3 35
	MAR	29 17 20	29 22 1		MAR	27 8 30	27 19 20
1 20 46	APRIL	28 6.4	28 5 2	2 14 13	APRIL	25 21 14	26 8 35
	MAY .	27 18 48	27 12 4		MAY .	25 9 58	25 19 20
	June .	26 7 32	25 20 16		JUNE .	23 22 42	24 4 18
	JULY .	25 20 16	25 6 40		JULY.	28 11 26	23 12 27
	Aug	24 9 0	23 19 58		Aug	22 0 10	21 20 43
	SEPT	22 21 44	22 12 18		SEPT	20 12 54	20 5 57
	Oct	22 10 28	22 6 55		Ocr	20 1 38	19 16 38
١.	Nov	20 23 12	21 2 27		Nov	18 14 22	18 5 4
	DEC	20 11 56	20 21 13		DEC	18 3 6	17 19 15
1284.	JAN	19 0 40	19 13 46	1281.	JAN.	16 15 50	16 10 54
D.	FEB	17 13 24	18 3 19	A.G.	FEB	15 4 34	15 8 32
	MAR	19 2 9	19 13 56		MAR	15 17 19	15 20 21
2 2 35	APRIL	17 14 53	17 22 13	1 20 2	APRIL	14 6 3	14 12 24
	MAY .	17 3 37	17 5 7		MAY .	13 18 47	14 2 56
4	JUNE .	15 16 21	15 11 47		JUNE .	12 7 31	12 15 36
	JULY .	15 5 5	14 19 18		JULY.	11 20 15	12 2 36
	Aug.	13 17 49	13 4 42		Aug	10 8 59	10 12 33
	SEPT	12 6 33	11 16 47		SEPT	8 21 43	8 22 11
	OCT	11 19 17	11 7 53		Ocr	8 10 27	8 8 7
	Nov	10 8 1	10 1 39		Nov	6 23 11	6 18 45
	DEC	9 20 45	9 20 55		DEC	6 11 55	6 6 11
			1				

1	Mean Vernal quinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
			d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
	B.C. 280.	JAN	5 0 39	4 18 28	1277.	JAN	2 15 49	3 1 55
	F.	Feb	3 13 23	3 7 39	C.B.	FEB	1. 4 33	1 12 24
	April.	MAR	5 2 8	4 21 51	April. $d. h. m.$	7.5	(1 17 18	1 21 15
	d. h. m. 2 1 51	APRIL	3 14 52	3 12 54	0,. 12. 116.	MAR	(31 6 2	31 5 6
		MAY .	3 3 36	3 4 23	1 19 17	APRIL	29 18 46	29 12 <b>49</b>
		JUNE .	1 16 20	1 19 42		MAY .	29 7 30	28 21 28
			c1 5 4	1 10 11		JUNE .	27 20 14	27 8 8
		JULY.	30 17 48	30 23 34		JULY .	27 8 58	26 21 16
		Aug	29 6 32	29 11 53		Aug	25 21 42	25 13 12
		SEPT	27 19 16	27 23 25		SEPT	24 10 26	24 7 <b>14</b>
		Ocr	27 8 0	27 10 33		Ocr	23 23 10	24 2 6
		Nov	25 .20 44	25 21 28		Nov.	22 11 54	22 20 20
		DEC	25 9 28	25 8 13		DEC	22 0 38	22 12 40
	1279.	_	23 22 12	23 18 55	1276.	Jan	20 13 22	21 2 25
	E.	FEB.	1		A.	FEB.	19 2 6	19 13 25
		MAR.				MAR.	20 14 50	20 22
	2 7 40				2 1 6		19 3 34	
	<u> </u>	MAY				MAY .	18 16 18	18 12 1
		JUNE				June.	17 5 2	16 19 8
		JULY				July .	16 17 46	16 4 4
		Aug.				Aug.		14 16 4
		SEPT.		4 17 10 0		SEPT.		13 7 \$
		Ост.	16 16 4		11	Ост.		13 1 7
		Nov.			il	Nov.		11 20
		-	. 14 18 1		H	DEC.	1	3 11 16
	1278.	Jan.	. 13 7	0 13 10 30	1275.	Jan.	9 22 10	10 9
	D.	FEB.		1		FEB.	8 10 54	4 9 0
		MAR		1		MAR.		9 10 12
	2 13	29 APRI	т 11 21 1	3 11 14 26	2 6 5			8 22
		MAY	. 11 9 5	57 11 0 5	7	Max		7 8 5
		JUNI	9 22 4	9 13 1	9	June	. 6 13 5	6 12
		JULY	9 11 9	25 9 3 4	9	JULY	. 6 2 3	5 5 19
		Αυσ	8 0	9 7 20	7	Aug.	. 4 15 1	9 4 8
		SEPT	6 12	53 6 13 2	5	SEPT.	. 3 4	8 214
		Ост	. 6 1	87 6 6 4	2	Ост.	. 2 16 4	
		Nov	. 4 14	21 4 22 5	6	3.7	(155	$_{31}$
		DEC	4 3	5 4 13 2	6	Nov.	· {30 18 :	15 80 15
						DEC.	. 30 6 5	69 BO 10
	1				11		1	1

Mean Vernul quinox.	Month.	Menn New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1274. F. April. J. h. m. 2 12 44	JAN FEB MAR APRIL MAY . JUNE . JULY .	d. h. m. 28 19 48 27 8 27 28 21 12 27 9 56 26 22 40 25 11 24 25 0 8	d. h. m. 29 4 56 27 21 6 29 10 21 27 20 44 27 5 8 25 12 18 24 19 37	B.C. 1271. B. April. d. h. m. 2 6 10	Jan FEB MAR APRIL MAY . JUNE . JULY . AUG	d. h. m. 25 10 58 28 28 37 25 12 22 24 1 6 28 13 50 22 2 34 21 15 18 20 4 2	d. h. m. 25 5 0 28 18 24 25 8 36 23 23 54 28 15 19 22 6 28 21 20 84 20 9 41
	Aug Sept Oct Nov Dec	23 12 52 22 1 86 21 14 20 20 3 4 19 15 48	28 3 57 21 14 6 21 2 35 19 17 30 19 10 26		SEPT OCT Nov DEC	18 16 46 18 5 30 16 18 14 16 6 58	18 21 50 18 9 23 16 20 31 16 7 19
1273. E.D.	JAN FEB MAR	18 4 32 16 17 16 17 6 0 15 18 44	18 4 33 16 22 33 17 15 14 16 5 44	1270. A. 2 11 59	JAN FEB MAR	14 19 42 13 8 26 14 21 10 13 9 54	13 4 21
1 18 88	MAY . JUNE . JULY . AUG SEPT OGT NOV DEC	15 7 28 13 20 12 18 8 56 11 21 40 10 10 24 9 28 8 8 11 53	15 17 45 14 8 87 13 12 18 11 20 81 10 5 24 9 15 26 2 8 8 2		MAY . JUNE . JULY . AUG. SEPT. OCT. NOV. DEC.	11 11 2: 11 0 0 9 12 5 8 1 3 7 14 1 6 3 5 15 4	2 11 7 7 6 10 22 50 0 9 14 58 4 8 6 81 8 7 21 11 2 6 10 41 6 5 22 58
1272. c. 2 0 2	1	6 14 4	4 4 22 50 9 6 15 29 8 5 7 5	G.F. 1 1 17 4	JAN. FEB. MAR. APRIL	4 40	14 2 19 34 59 3 4 34 43 { 1 13 26 80 23 3
	MAY JUNE JULY AUG. SEPT. OCT NOV. DEC.	. 8 5 . 2 17 4 . 1 6 5 . 80 19	1 8 12 5 15 8 0 5 29 1 11 2 18 30 21 2 57 29 7 2 41 28 17 4	8 22 9 27 24 44 17	MAY JUNE JULY AUG. SEPT OCT. NOV.	30 20 29 8 28 21 27 10 25 23 25 11 24 0	11 30 10 17 55 28 23 40 39 28 15 13 28 27 8 20 7 26 2 1 51 25 19 6 35 24 10 48

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon,
B.C.		d. h. m.	d. h. m.	B.C.	<b>-</b>	d. h. m.	d. h. m.
1268. E.	Jan	22 2 3	22 11 38	1265. B.A.	JAN	19 17 13	19 23 45
April.	FEB	20 14 47	20 21 6		FEB	18 5 57	18 17 4
d. h. m.	MAR	22 3 31	22 5 9	d. h. m.	MAR	18 18 41	19 7 43
1 23 37	APRIL	20 16 15	20 12 38	1 17 3	APRIL	17 7 25	17 19 27
	MAY .	20 4 59	19 20 34		MAY.	16 20 9	17 4 42
	June .	18 17 43	18 5 59		June.	15 8 53	15 12 26
	JULY.	18 6 27	17 17 50		July .	14 21 37	14 19 45
	AυG	16 19 11	16 8 30		Aug	13 10 21	13 3 36
	Sept	15 7 55	15 1 46		SEPT	11 23 5	11 12 54
	Ocr.	<b>14</b> 20 39	14 20 33		Ост	11 11 49	11 0 17
	Nov	13 9 23	13 15 25		Nov	10 0 33	9 13 58
	Dec	12 22 7	18 8 55		DEC	9 13 17	9 5 52
1267. D.	Jan	11 10 51	12 0 0	1264.	JAN	8 2 1	7 28 18
2.	FEB	9 23 35	10 12 14	G.	FEB	6 14 45	6 17 18
	MAR	11 12 20	11 21 54		Mar	8 3 30	8 10 39
2 5 26	APRIL	10 1 4	10 5 41	1 22 52	APRIL	6 16 14	7 2 13
	MAY.	9 13 48	9 12 30		MAY .	6 4 58	6 15 28
	JUNE.	8 2 32	7 19 27		June .	4 17 42	5 2 26
	JULY.	7 15 16	7 3 39		July.	4 6 26	4 11 44
1	Aug	6 4 0	5 14 8		Ayg	2 19 10	2 20 17
	SEPT	4 16 44	4 3 35		SEPT	5 1 7 54	1 4 59
	Ост.	4 5 28	3 20 5		DEFI.	रि30 20 38	30 14 84
İ	Nov.	2 18 12	2 14 51		Ост	30 9 22	30 1 26
1	DEC	2 6 56	2 10 27		Nov	28 22 6	28 13 47
		(31 19 40	(1 5 21		DEC	28 10 50	28 8 86
1266. c.	JAN	30 8 24	30 21 38	1263.	Jan	26 23 34	26 18 44
	FEB.	28 21 9	∫ 1 11 4	F.	FEB	25 12 18	25 10 48
2 11 15	MAR.	30 9 53	(30 21 30		MAR	27 1 3	27 8 10
2 11 15	APRIL	28 22 37	29 5 40	2 4 41	APRIL	25 13 47	25 18 59
	MAY.	28 11 21	28 12 34		MAY .	25 2 31	25 9 84
•	JUNE.	27 0 5	<b>2</b> 6 19 19		JUNE.	23 15 15	23 22 32
	JULY.	26 12 49	26 3 0		July .	23 3 59	23 10 <b>1</b>
	Aug	25 1 33	24 12 36		Aug	21 16 43	21 20 29
	SEPT.	23 14 17	23 0 52		SEPT	204 5 27	20 6 37
	Oct	23 3 1	22 16 2		Ост	19 18 11	19 16 57
	Nov	21 15 45	21 9 43		Nov	18 6 55	18 3 48
1	DEC	21 4 29	21 4 49		DEC	17 <b>19 3</b> 9	17 15 1
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Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	
B.C.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.	
1262.	JAN	16 8 23	16 2 52	1259.	JAN	12 23 33	13 10 30	
E	FEB	14 21 7	14 15 28	A.	FEB	11 12 17	11 20 43	
April. $d. h. m.$	MAR	16 9 51	16 5 2	April. d. h. m.	MAR	13 1 1	13 5 13	
2 10 29	APRIL	<b>14</b> 22 36	14 19 37	2 3 56	APRIL	11 13 45	11 12 42	
	MAY .	14 11 21	<b>14 10</b> 52		MAY .	11 2 29	10 20 9	
	June .	13 0 5	13 2 13		June .	9 15 13	9 4 36	
	July .	12 12 49	12 17 4		Jura .	9 3 57	8 15 7	
	Aug	1 <b>1</b> 1 33	1 <b>1</b> 6 59		A.UG	7 16 41	7 4 25	
	SEPT	9 14 17	9 19 55		SEPT	6 5 25	5 20 34	
	Ocr	9 3 1	9 7 59		Ост.	5 18 9	5 14 53	
	Nov	7 15 45	7 19 27		Nov	4 6 53	4 10 4	
	DEC	7 4 29	7 6 27		DEC	3 19 37	4 4 32	
1261.	Jan	5 17 13	5 17 0	1258.	JAN	2 8 21	2 20 56	
D.C.	FEB	4 5 57	4 3 15	G.	JAN	(31 21 5		
	MAR	4 18 40	4 13 35		FEB		1 10 32	
1 16 18	APRIL	3 7 24	3 0 37		MAR.	5 2 9 50	2 21 20	
	MAY .	2 20 8	2 12 56		MAR.	31 22 34	1 5 48	
	_	(1852	1 2 52	2 9 45	APRIL	30 11 18	1	
	JUNE -	30 21 36	30 18 10	)	MAY .	1		
	JULY .	30 10 20	30 10 19	)	June .	28 12 46		
	Aug.	28 23 4	29 2 31	.	July .	28 1 30	1	
	SEPT.	27 11 48	27 18 1	L	Aug.	. 26 14 14	1	
	OCT.	27 0 39	27 8 29	2	SEPT.			
	Nov.	25 13 10	3 25 21 2	L	Ocr.			
	DEC.	25 2	25 8 5	5	Nov.	. 23 4 26	1	- 1
				_	DEC.	. 22 17 10	23 0 0	1
1260. B.	Jan.	. 23 14 4		1 1257:	Jan.	. 21 5 5	4 21 17 41	.
	FEB.			10.10	FEB.	40 10 0	8 20 8 35	,
	MAR.	·		11	MAR.	00 70	2 20 20 28	3
1 22	7 April			II		40.00	6 19 5 3	.
	MAY		-   : -	4	May	1 - 0 -	0 18 12 5	Ł
	JUNE	40.40	9 19 10 8	- 1	JUNE	40.04.0	4 16 19 3	3
	July	`		_	July	40404	4	э
	Aug.	10.00		11	Aug.	74.00	2 14 11 2	7
	SEPT.	1 40 00	16 14 4	11	SEPT	4044	16 12 22 2	5
	Oct.			11	Oct.		1	2
	Nov.	1		4	Nov.	1	میر در این	2
	DEC.	14 10	14 22	-	DEC.		1	9
				11		1		

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1256. D. April. d. h. m. 1 21 22	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	d. h. m. 9 14 42 8 3 26 9 16 11 8 4 55 7 17 39 6 6 23 5 19 7 4 7 51 2 20 35 { 2 9 19 { 31 22 3 30 10 47 29 23 31	d. h. m. 9 18 14 8 12 24 10 4 23 8 17 30 8 3 56 6 12 22 5 19 53 4 3 29 2 12 10 1 22 34 81 11 8 30 1 53 29 18 28	B.C. 1253. A.G. April. d. h. m. 1 14 49	Jan Feb Mar April May . June . July . Aug Sept Oct Nov Dec	d. h. m.  7 5 52 5 18 36 6 7 21 4 20 5 4 8 49 2 21 33 2 10 17 31 23 1 30 11 45 29 0 29 28 13 13 27 1 57 26 14 41	d. h. m.  7 1 7 5 13 4 6 1 50 4 15 38 4 6 25 2 21 45 2 13 8 { 1 3 48 30 17 26 29 6 11 28 18 10 27 5 28
1255. c.	Jan Feb	28 12 15 27 0 59	28 12 6 27 5 41	125 <b>2.</b> F.	Jan Feb	25 3 25 23 16 9	26 16 10 25 2 21 28 12 20
2 3 11	MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	28 13 44 27 2 28 26 15 12 25 3 56 24 16 40 23 5 24 21 18 8 21 6 52 19 19 36 19 8 20	28 22 7 27 12 32 27 0 40 25 10 52 24 19 52 28 4 37 21 13 54 21 0 14 19 11 49 19 0 47	1 20 38	MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	25 4 54 23 17 38 23 6 22 21 19 6 21 7 50 19 20 34 18 9 18 17 22 2 16 10 46 15 23 30	24 22 41 23 10 8 22 23 1 21 13 88 21 5 35 19 22 5 13 14 18 18 5 38 16 19 25 16 7 44
1254. B. 2 9 0	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	17 21 4 16 9 48 17 22 32 16 11 16 16 0 0 14 12 44 14 1 28 12 14 12 11 2 56 10 15 40 9 4 24 8 17 8	17 15 8 16 6 25 17 22 27 16 14 27 16 5 42 14 19 38 14 8 1 12 19 12 11 5 42 10 16 6 9 2 44 8 13 44	1251. E. 2 2 2 27	Jan Feb Mar April May . June . July . Aug Sept Oct Nov Dec	14 12 14 13 0 58 14 13 42 13 2 26 12 15 10 11 3 54 10 16 38 9 5 22 7 18 6 7 6 50 5 19 34 5 8 18	14 18 29 13 3 58 14 12 26 12 20 51 12 6 6 10 17 5 10 6 27 8 22 11 7 15 40 7 9 48 6 3 21 5 19 14

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Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1250. p. April. d. h. m. 2 8 15	JAN FEB MAR APRIL MAY . JUNE . JULY .	d. h. m.  8 21 2 2 9 46 8 22 81 2 11 15 ( 1 28 59 (81 12 48) 80 1 27 20 14 11	d. h. m. 4 8 49 2 20 1 4 5 10 2 12 53 1 20 5 81 8 48 29 18 8 29 1 1	B.C. 1247. g. April. d. h. m. 2 1 42	JAN FEB MAR AFRIL MAY . JUNE . JULY . AUG	d. h. m. 30 0 56 28 13 41 30 2 25 28 15 9 28 3 58 26 16 87 26 5 21 24 18 5	d. h. m. 30 7 17 28 23 55 30 14 51 29 2 35 28 11 57 26 19 54 26 3 30 24 11 44
	Aug Sept Oct Nov	28 2 55 26 15 89 26 4 28 24 17 7	27 15 51 26 9 20 26 4 24 24 28 31		SEPT OCT NOV DEC	23 6 49 22 19 33 21 8 17 20 21 1	22 21 22 22 8 53 20 22 30 20 14 6
1249. c.s.	Jan Feb	24 5 51 22 18 85 21 7 19	24 17 9 28 8 10 21 20 15	1246. F. 2 7 81	JAN FEB MAR APRIL	19 9 45 17 22 29 19 11 14 17 23 58	19 7 5 18 0 36 19 17 34 18 8 58
1 14 4	MAR APRIL MAY. JUNE.	21 20 4 20 8 48 19 21 82 18 10 16	22 5 41 20 18 15 19 19 57 18 2 52	2 7 01	MAY . JUNE . JULY . Aug	17 12 42 16 1 26 15 14 10 14 2 54	17 22 17 16 9 31 15 19 12
	July . Aug Sept Oct	17 28 0 16 11 44 15 0 28 14 18 12	17 11 9 15 21 46 14 11 22 14 8 59		SEPT OCT Nov DEC	12 15 88 12 4 22 10 17 6	12 13 28 2 11 23 18 3 10 10 18
1248.	Nov DEC	18 1 56 12 14 40 11 8 24 9 16 8	12 22 47 12 18 28 11 18 8 10 5 21	1245. E.D.	Jan. Feb.	8 18 3	8 11 55
1 19 58	May .	11 4 52 9 17 86 9 6 20	11 18 88 10 5 7 9 18 8	1 13 20	APRIL MAY June	6 8 4 5 21 8 4 10 1	0 6 1 2 4 4 16 1
	JUNE . JULY . Aug Sept	5 20 82	7 2 54 5 10 49	U	July Aug. Sept.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 2 17 2 6 1 4 8 0 30 15 1
	Oct Nov Dec	8 22 0	8 9 4 2 0 17 8 1 17 48		Nov. Dec.	. 28 14 8	8 28 12 4

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon,	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1244. c. April.	Jan Feb	d. h. m. 26 16 6 25 4 50	d. h. m. 26 11 8 24 28 9	B.C. 1241. G.F. April.	Jan Feb Mar	d. h. m. 24 7 16 22 20 0 23 8 45	d. h. m. 24 18 54 28 4 52 23 13 4
d. h. m. 1 19 8	MAR April May.	26 17 35 25 6 19 24 19 3	26 12 8 25 2 18 24 17 15	d. h. m. 1 12 35	APRIL MAY .	21 21 29 21 10 13	21 20 15 21 3 28
	JUNE . JULY . AUG	23 7 47 22 20 31 21 9 15	23 8 46 22 23 58 21 14 28		June. July. Aug	19 22 57 19 11 41 18 0 25	19 11 48 18 22 21 17 11 45
	SEPT OCT Nov	19 21 59 19 10 48 17 23 27	20 4 0 19 14 36 18 4 22		Sept Oct Nov	16 18 9 16 1 58 14 14 37	16 4 6 15 22 89 14 18 4
1243.	JAN FEB	17 12 11 16 0 55 14 13 39	17 15 21 16 1 38 14 11 25	1240. E.	JAN Feb	14	14 12 42 18 5 6 11 18 84
2 0 57	MAR APRIL	16 2 28 14 15 7 14 8 51	15 21 14 14 7 44 13 19 40	1 18 24	MAR APRIL MAY.	12 17 33 11 6 17 10 19 1	18 5 8 11 18 25 10 20 21
	JUNE . JULY . Aug	12 16 35 12 5 19	12 9 24 12 0 50		JUNE. JULY.	9 7 45 8 20 29	9 8 1 8 10 82
	SEPT Oct	10 18 3 9 6 47 8 19 31	10 17 19 9 10 3 9 2 8		Aug Sept	7 9 18 5 21 57 5 10 41	6 19 55 5 8 5 4 28 18
1242.	Nov DEC JAN	7 8 15 6 20 59 5 9 43	7 16 58 7 6 10 5 17 38		Nov Dec	3 23 25 3 12 9 ( 2 0 58	8 17 11 8 12 86 2 7 52
2 6 46	FEB MAR APRIL	3 22 27 5 11 12 3 23 56	4 3 32 5 12 15 3 20 24	1239. D.	JAN FEB	81 13 87	 1 1 28 2 16 9
	MAY . JUNE .	3 12 40 2 1 24 (1 14 8	3 4 55 1 14 48 1 2 53	2 0 18	MAR	81 15 6 30 3 50	1 8 49 80 12 58
	JULY . AUG SEPT	31 2 52 29 15 36 28 4 20	30 17 31 29 10 33 28 4 33		June . July .	29 16 34 28 5 18 27 18 2	29 20 17 28 3 10 27 10 85
	Oct Nov Dec	26 5 48 25 18 32	27 22 46 26 15 45		Aug Sept Oct	26 6 46 24 19 30 24 8 14	25 19 30 24 5 40 28 20 30
	550.	20 10 52	26 6 35		Nov Dec	22 20 58 22 9 42	22 12 55 22 7 8

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1238. c. April. d. h. m. 2 6 1	JAN FEB MAR APRIL MAY . JUNE .	d. h. m. 20 22 26 19 11 10 20 23 55 19 12 39 19 1 28 17 14 7 17 2 51	d. h. m. 21 1 52 19 19 43 21 11 29 20 0 33 19 11 4 17 19 43 17 3 31	B.C. 1235. F. April. d. h. m. 1 23 28	Jan Feb Mar April May . June . July .	d. h. m. 17 18 36 16 2 20 17 15 5 16 3 49 15 16 38 14 5 17 13 18 1	d. h. m. 17 9 88 15 21 1 17 9 10 15 22 26 15 12 54 14 4 18 13 19 47
	Aug Sept Oct Nov Dec	15 15 35 14 4 19 13 17 3 12 5 47 11 18 31	15 11 32 13 20 33 13 7 11 11 19 46 11 10 17		Aug Sept Oct Nov Dec	12 6 45 10 19 29 10 8 13 8 20 57 8 9 41	12 10 58 11 1 19 10 14 40 9 3 0 8 14 24
1237. B.A.	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG	10 7 15 8 19 59 9 8 43 7 21 27 7 10 11 5 22 55 5 11 39 4 0 23	10 2 26 8 19 83 9 12 41 8 4 50 7 19 14 • 6 7 36 5 18 9 4 3 38	1234. E. 2 5 17	JAN FEB MAR APRIL MAY . JUNE . JULY .	6 22 25 5 11 9 6 28 58 5 12 37 5 1 21 8 14 5 8 2 49 1 15 38 81 4 17	7 0 57 5 10 45 6 20 18 5 6 1 4 16 57 8 5 38 2 20 15 1 12 26 81 5 12
1236.	OCT Nov DEC	2 13 7 2 1 51 31 14 35 30 3 19 29 16 3 28 4 47	31 9 6 29 20 39 29 9 17	1233.	SEPT OCT Nov DEC	29 17 1 29 5 45 27 18 29 27 7 13 25 19 57	29 22 0 29 13 55 28 4 7 27 16 28 26 3 1
g. 1 17 39	MAY JUNE JULY AUG. SEPT. OCT. Nov.	24 9 12 22 21 56 21 10 40 20 23 24 19 12 8	28 5 15 26 20 59 26 12 14 3 25 2 24 2 24 15 18 3 28 3 2 21 14 6 4 21 0 56 3 19 11 48		FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	19 13 6 18 1 50 17 14 34 16 3 18	21 0 0 20 13 22 19 5 17 17 23 7 17 17 41 16 11 37
	DEC.	. 19 0 59	2 18 22 37				P

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Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1232.	JAN	d. h. m. 14 446	d. h. m. 14 17 16	B.C. 1229.	Jan	d. h. m. 11 19 56	d. h. m. 11 20 23
В.	FEB	12 17 30	13 4 16	F.E.	FEB	10 8 40	10 14 39
April. d. h. m.	MAR	14 6 15	14 13 7	April.	MAR	10 21 24	11 7 26
1 16 54	APRIL	12 <b>1</b> 8 59	12 20 32	d. h. m. 1 10 21	APRIL	9 10 8	9 21 51
	MAY .	12 7 43	12 3 30		MAY .	8 22 52	9 9 36
	JUNE .	10 20 27	10 11 5		JUNE .	7 11 36	<b>7 1</b> 9 10
	JULY.	10 9 11	9 20 24		July.	7 0 20	7 3 26
	Aug	8 21 55	8 8 21		Aug	5 13 4	5 <b>1</b> 1 25
	SEPT	7 10 39	6 23 20		SEPT	4 1 48	3 20 1
	Oct	6 23 23	6 17 2		Oct	3 14 32	3 5 57
	Nov	5 12 7	5 12 20		Nov	2 3 16	1 17 34
	DEC	5 0 51	5 7 37		_	(116 0	173
	_		İ		DEC	31 4 44	30 22 15
1231.	JAN	<b>3</b> 13 35	4 1 15				
	FEB	2 2 19	2 16 12	1228.	JAN	29 17 28	29 14 43
4 00 10	MAR	3 15 3	4 4 6	D.	FEB	28 6 13	28 7 43
1 22 43	APRIL	2 3 47	2 13 20		MAR	29 18 57	30 0 19
	MAY .	{ 1 16 31	1 20 43	•	APRIL	28 7 41	28 15 37
	_	(31 5 15	31 3 22	1 16 10	MAY.	27 20 25	28 5 4
1	JUNE.	29 17 59	29 10 22		June .	26 9 9	26 16 38
	JULY.	29 6 43	28 18 46		JULY.	25 21 53	26 2 47
	Aug	27 19 27	27 5 33		Aug	24 10 37	24 12 17
	SEPT	26 8 11	25 19 17		SEPT	22 23 21	22 21 54
	Oct.	25 20 55	25 11 59		Ост	22 12 5	22 8 6
₹	Nov.	24 9 39	24 6 48		Nov	21 0 49	20 19 11
	DEC	23 22 23	24 2 17		DEC	20 13 33	20 7 10
1230. G.	JAN	22 11 7	22 20 45	1227.	Jan	19 2 17	18 20 6
u,	FEB	20 23 51	21 12 54	C.	FEB	17 15 1	17 10 3
	MAR.	22 12 36	23 2 3		MAR	19 3 46	19 0 56
2 4 32		21 1 20	21 12 17	<b>1</b> 21 59	APRIL	17 16 30	17 16 26
	MAY .	20 14 4	20 20 25		MAY .	17 5 14	17 7 57
	JUNE.	19 2 48	19 3 30		JUNE .	15 17 58	15 22 48
	JULY.	18 15 32			JULY.	15 6 42	15 12 32
	Aug	17 4 16	16 18 48		A.ug	13 19 26	14 1 6
	SEPT	15 17 0	15 4 54		SEPT	12 8 10	12 12 45
	Oct	15 5 44	1		Ост. ,	11 20 54	11 23 51
	Nov.	13 18 28	-5 5 50	1	Nov	10 9 38	10 10 47
	DEC	13 7 12	13 1 54		DEC	9 22 22	9 21 38

Mean Vernal	Month.	Mean New	True New	Mean Vernal	Month.	Mean New	True New
Equinox.		Moon.	Moon.	Equinox.		Moon.	Moon.
B.C.		d. h. m.	đ. h. m.	B.C.		d. h. m.	d. h. m.
1226.	JAN	8 11 6	8 8 25	1223.	JAN	5 2 16	5 15 0
В.	FEB	6 23 50	6 19 20	E.	Гев	3 15 0	4 3 12
April. $d. h. m.$	MAR	8 12 34	8 6 44	April. $d. h. m.$	MAR	5 3 44	5 12 54
2 3 47	APRIL	7 1 18	<b>6 1</b> 9 8	1 21 14	APRIL	3 16 28	3 20 47
	MAY .	6 14 2	6 8 <b>4</b> 9		MAY .	3 5 12	3 3 44
	June .	5 2 46	4 23 43		JUNE.	1 17 56	$\begin{cases} 1 & 10 & 48 \\ 30 & 19 & 6 \end{cases}$
	JULY.	4 15 30	4 15 19		JULY.	£ 1 6 40	`
	Aug	3 4 14	<b>3</b> 6 59		0021.	<b>130 19 24</b>	30 5 41
	SEPT	1 16 58	1 22 4		AUG	29 8 8	28 18 13
		(1 5 42	1 12 13		SEPT	27 20 52	27 11 47
	Oct.	30 18 26	31 1 17		Ост	27 9 36	27 6 32
	Nov	29 7 10	29 13 15		Nov	25 22 20	26 2 5
	DEC	28 19 54	29 0 12		DEC	25 11 4	25 20 43
1225.	Jan	27 8 38	27 10 10	1222.	JAN	23 23 48	24 13 4
A.G.	FEB.	25 21 22	25 19 30	D.	FEB	22 12 32	23 2 24
	MAR.	26 10 7	26 4 48		MAR.	24 1 17	24 12 49
1 9 36	APRIL	24 22 51	24 14 51	2 3 3	APRIL	22 14 1	22 20 57
1 9 90	MAY.	24 11 35	24 2 25		MAY .	22 2 45	22 3 49
	JUNE.	23 0 19	22 16 2		JUNE.	20 15 29	20 10 31
	July.	22 13 3	22 7 35		JULY .	20 4 13	19 18 9
	Aug.	21 1 47	21 0 26		Aug	18 16 57	18 3 44
	SEPT.	19 14 31	19 17 41		SEPT	17 5 41	16 16 2
	1	10 0 1	19 10 19		Oct.	16 18 25	16 7 21
	Oct.		18 1 33		Nov.	15 7 9	15 1 14
	Nov.		17 14 54		DEC.	14 19 53	14 20 31
	DEC.			1221.	JAN	13 8 37	13 15 36
1224.	JAN.	1	16 2 16	C.B.	FEB.	11 21 21	12 8 56
F.	FEB.		14 11 51		MAR.	12 10 6	12 23 33
	MAR.	1	15 20 10	1 0 50		10 22 50	11 11 8
1 15 25	5 APRIL	1		1 8 52	MAY .		1
	MAY	L .	1	•	JUNE .		1
	JUNE	. 12 9 8			JULY	0.10	
	July	i i	1		Aug.		2 40 00
	Aug.				SEPT.		
	SEPT.	1	l .				
	Ocr.	. 8 12 4	- 1	11	Nov.		
	Nov.	. 7 0 48		- 11		0.44	
1	DEC.	. 6 13 32	2 7 0 7	1	DEC.		
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Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 1220.	Jan Feb	$   \begin{array}{ccccccccccccccccccccccccccccccccccc$	d. h. m. 1 15 1 31 9 21	B.C. 1217. E.D. April. d. h. m.	Jan Feb Mar	28 21 20 27 10 4 27 22 48	d. h. m. 28 18 1 27 4 50 27 16 24
April. d. h. m. 1 14 40	MAR APRIL MAY. JUNE.	1 18 54 31 7 38 29 20 22 29 9 6 27 21 50	2 2 51 31 18 27 30 7 30 29 18 10 28 3 7	186	MAY . JUNE . JULY . Aug	26 11 32 26 0 16 24 13 0 24 1 44 22 14 28	26 5 11 25 19 28 24 10 48 24 2 86 22 18 19
	JULY . Aug Sept Oct	27 10 34 25 23 18 24 12 2 24 0 46	27 11 17 25 19 41 24 5 4 28 15 58		SEPT OCT Nov DEC. ,	22 14 28 21 3 12 20 15 56 19 4 40 18 17 24	21 9 17 20 28 9 19 11 50 18 28 18
1219. G.	Nov DEC JAN FEB	22 13 30 22 2 14 20 14 58 19 3 42	22 4 26 21 18 39 20 10 17 19 2 51	1216. c.	Jan Feb Mar	17 6 8 15 18 52 17 7 37	17 9 86 15 19 1 17 8 58
1 20 29	MAR APRIL MAY. JUNE.	20 16 27 19 5 11 18 17 55 17 6 39	20 19 36 19 11 30 19 1 55 17 14 31	1 13 55	MAY . June . July .	15 20 21 15 9 5 18 21 49 13 10 33	15 18 18 14 28 50 13 12 18 18 2 56
	July . AGG Sept Oct	16 19 23 15 8 7 13 20 51 13 9 35	17 1 31 15 11 31 13 21 14 13 7 18		Aug Sept Oct Nov	11 23 17 10 12 1 10 0 45 8 13 29	11 19 28 10 12 50 10 6 10 8 22 28
1218. F.	Nov DEC JAN FEB	11 22 19 11 11 3 9 23 47 8 12 31	11 18 0 11 5 28 9 17 48 8 6 52	1215. в.	Jan Feb Mar	8 2 13 6 14 57 5 3 41 6 16 25	8 12 48 7 1 8 5 11 27 6 20 7
2 2 18	MAR APRIL MAY. JUNE.	10 1 16 8 14 0 8 2 44 6 15 28	9 21 0 8 12 1 8 3 27	1 19 44	APRIL MAY . JUNE . JULY .	5 5 9 4 17 58 8 6 87	5 8 52 4 11 88 2 20 16
	JULY . AUG SEPT	6 4 12 4 16 56 3 5 40	6 18 45 6 9 14 4 22 89 8 11 1		Aug	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	\{ \text{81 20 28} \\ \text{80 12 82} \\ \text{29 6 48} \end{ar}
	Nov	2 18 24 { 1 7 8 80 19 52 30 8 36	2 22 36 1 9 47 30 20 43 30 7 26		Nov Dec	28 22 17 27 11 1 26 23 45	29 1 39 27 19 51 27 12 3

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C.		d. h. m.	d. h. m.	B.C.	Jan	d. h. m. 22 3 39	d. h. m. 22 3 59
1214.	JAN	25 12 29	26 1 33	1211.		20 16 23	20 21 53
A.	FEB	24 1 13	24 12 20	April.	FEB.		20 21 33
April. $d. h. m.$	MAR	25 13 58	25 20 54	d. h. m.	MAR		1
2 1 33	APRIL	24 2 42	24 4 5	1 18 59	APRIL	20 17 52	21 4 44
	MAY .	23 15 26	23 10 52		MAY.	20 6 36	20 16 36
	JUNE .	22 <b>4 1</b> 0	21 18 25		JUNE.	18 19 20	19 2 27
	July .	21 16 54	21 3 46		July.	18 8 4	18 11 3
	Aug	20 5 38	19 15 49		Aug	16 20 48	16 19 26
	SEPT	18 18 22	18 6 59		SEPT	15 9 32	15 4 26
	Ост	18 7 6	18 0 52		Oct	14 22 16	14 14 38
	Nov	16 19 50	16 20 18		Nov	13 11 0	13 2 20
	DEC	16 8 34	16 15 36		DEC	12 23 44	12 15 36
1213.	JAN.	14 21 18	15 9 13	1210.	JAN	11 12 28	11 6 21
G.F.	FEB.	13 10 2	14 0 2	C.	FEB	10 1 12	9 22 15
	MAR	13 22 47	14 11 47		MAR.	11 13 57	11 14 45
1 7 22	APRIL	12 11 31	12 20 52	2 0 48	APRIL	10 2 41	10 7 0
	MAY .	12 0 15	12 4 11		MAY.	9 15 25	9 22 13
	JUNE .	10 12 59	10 10 51		June .	8 4 9	8 11 49
	July.	10 1 43	9 17 57		July .	7 16 53	7 23 47
	Aug.	8 14 27	8 2 32		Aug.	6 5 37	6 10 27
	SEPT.	7 3 11	6 13 30		SEPT	4 18 21	4 20 29
	Oct.	6 15 55	6 3 24		Ост.	4 7 5	4 6 33
	Nov.	5 4 39	4 20 5		Nov.	2 19 49	2 17 2
	<b>T</b> D	4 17 23	4 14 48		1210111	(2 8 33	2 4 6
	1				DEC	81 21 17	31 15 48
1212. E.	JAN	3 6 7	3 10 5		T	30 10 1	30 4 13
15.	FEB	1 18 51	2 4 20	1209. B.A.	JAN.	28 22 45	28 17 33
	MAR	3 7 35	3 20 18		FEB.	29 11 29	29 7 51
1 13 11	APRIL	1 20 19	2 9 18		MAR.	28 0 13	27 22 58
	MAY.	§ 1 9 3	1 19 32	1 6 37	APRIL	27 12 57	27 14 22
		(30 21 47	31 3 45		MAY .		26 5 26
	June .	29 10 31	29 11 1		JUNE.	26 1 41 25 14 25	25 19 38
	JULY.	28 23 15	28 18 26		JULY.		25 19 58
	Aug	27 11 59	27 2 55		Aug.	24 3 9	22 21 2
	SEPT	26 0 43	25 13 15		SEPT.	22 15 58	22 21 2
9	Oct	25 13 27	25 1 54		Oct.	22 4 37	1
	Nov	24 2 11	23 16 57		Nov.	20 17 21	20 19 45
	DEC	23 14 55	23 9 56		DEC	20 6 5	20 6 31
					!	<u> </u>	<u> </u>

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 1208. 6. April. d. h. m. 1 12 26	JAN FEB MAR APRIL MAY . JUNE . JULY .	d. h. m. 18 18 49 17 7 38 18 20 18 17 9 2 16 21 46 15 10 30 14 23 14	d. h. m.  18 17 0  17 3 28  18 14 14  17 2 5  16 15 25  15 6 11  14 21 59  13 14 7	B.C. 1205. D.c. April. d. h. m. 1 5 52	JAN FEB MAR O APRIL MAY . JUNE . JULY .	d. h. m.  16 9 59  14 22 48  {15 11 28  30 5 50  14 0 12  13 12 56  12 1 40  11 14 24	d. h. m.  16 23 16 15 11 18 15 20 47 30 4 50 14 4 25 13 11 11 11 18 11
1207.	SEPT OCT Nov DEC	13 11 58 12 0 42 11 13 26 10 2 10 9 14 54 8 3 38	13 14 7 12 5 48 11 20 32 10 10 1 9 22 9 8 8 57		AUG SEPT O OCT Nov DEC	10 3 8 8 15 52 23 10 14 8 4 36 6 17 20 6 6 4	9 13 12 8 2 58 23 13 40 7 19 34 6 14 27 6 10 8
r. 1 18 15	FEB MAR APRIL	6 16 22 8 5 7 6 17 51 21 12 13	6 18 36 8 3 29 6 12 16 22 0 1	1204.	JAN Feb Mar	4 18 48 3 7 32 4 20 17	5 4 40 8 20 55 5 10 7
	MAY . JUNE . JULY . AUG SEPT O OCT NOV DEC	6 6 85 4 19 19 4 8 8 2 20 47 { 1 9 81 80 22 15 (15 16 87 80 10 59 28 23 43 28 12 27	5 21 54 4 9 12 3 22 44 2 14 26 1 11 19 (1 1 28 15 6 49 30 18 35 29 10 7 28 23 33	1 11 41	JULY .  JULY .  AUG  SEPT  OCT  NOV  DEC	8 9 1 2 21 45 ( 1 10 29 30 28 18 30 11 57 29 0 41 27 18 25 27 2 9 25 14 58 25 8 87	8 20 21 8 4 24 1 11 15 80 18 8 80 1 52 28 11 41 27 0 9 26 15 81 25 9 19 25 4 28
1206. R.	JAN FRB MAR	27 <b>1</b> 11 25 13 55	27 10 45 25 20 1 27 3 57	1203. A.	JAN  O FEB MAR	28 16 21 7 10 48 22 5 5 23 17 49	28 28 18 7 10 16 22 16 20 24 6 46
204	APRIL MAY JUNE JULY AUG. SEPT. O OCT. Nov. DEC.	25 15 28 25 4 7 28 16 51 23 5 35 21 18 19	25 11 28 24 19 19 28 4 52 22 16 54 21 5 47 3 20 1 12 5 4 22 7 7 19 20 6 18 14 59	1 17 30	APRIL MAY . JUNE . JULY . O AUG SEPT OCT Nov DEC	22 6 88 21 19 17 20 8 1 19 20 45 { 8 15 7 { 18 9 29 16 22 18 16 10 57 14 28 41 14 12 25	22 18 9 22 3 28 20 11 10 19 18 82 3 12 8 18 2 81 16 12 1 15 28 84 14 18 28 14 5 22

Mean New Yernal Equinox.    Month   Month   Month   Month   Cruil Ecl.   Cruil Ecl								
B.C. 1202.	Vernal 1	Month.	Moon	Moon.	Vernal	Month.	Moon.	True New Moon.  O Full Ecl.)
Nov   11 14 51   11 18 42   Nov   8 6 1   8 9 39   DEC.   7 18 45   8 4 3	Pernal Equinox.  B.C. 1202. g. April. d. h. m. 1 23 19  1201. F.E.	JAN. OFFEB. APRIL MAY. JUNE. OCT. NOV. OCT. MAR. APRIL MAY JUNE OT. APRIL MAY JUNE OT. NOV. OCT. JAN. OCT. NOV. OCT. NOV. OCT. NOV. OCT. SEPT. OCT. NOV. OCT. SEPT. OCT. NOV. OCT. SEPT	d. h. m.  (13 1 9 27 19 31 11 13 53 13 2 38 11 15 22 11 4 6 9 16 50 9 5 34 23 23 56 7 18 18 6 7 2 5 19 46 4 8 30 8 21 14  (2 9 58 17 4 20 31 22 42  (1 11 26 31 0 10 29 12 54 29 1 38 27 14 22 (12 8 44 27 3 6 25 15 50 24 4 34 27 3 6 21 18 46 20 7 36 21 18 46 20 7 36 21 18 46 20 7 36 21 18 46 20 7 36 21 18 46 20 8 5 21 18 10 2 21 18 20 21 18 30 21 18 30 21 18 30 21 18 30 21 18 30 21 18 30 21 18 30 21 18 30 21 18 30 21 18 30 21 18 30 21 18 30 21 18 30 31 31 32	d. h. m.  12 22 47  28 2 38  11 16 48  13 9 53  12 1 16  11 14 23  10 1 16  9 10 33  23 12 55  7 19 10  6 3 59  5 13 43  4 0 43  8 13 8  2 2 58  17 16 53  31 18 4   1 10 3  31 2 18  29 18 1  29 8 33  27 21 28  11 19 50  27 8 57  25 19 30  4 24 5 44  8 23 16 8  2 2 2 58  3 11 19 50  27 8 57  25 19 30  4 24 5 44  6 23 16 8  2 2 2 58  3 1 14 14  6 20 2 3  4 18 14 36  9 20 4 9  3 18 18 40  7 18 9 53  1 17 1 15  5 16 16 8  9 15 6 5  18 19 30	Equinox.  B.C. 1199. c. April. d. h. m. 1 16 46	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV DEC  JAN FEB MAR . APRIL O MAY . JUNE . JULY . AUG SEPT OCT ONOV DEC	C Full Ecl.   C	d. h. m.  9 16 8 8 2 17 9 12 34 7 23 34 7 11 55 22 19 47 6 1 54 5 17 19 4 9 34 3 1 49 2 17 22 (1 7 45 15 8 21 30 20 41 30 8 7 28 18 9 27 3 7 28 18 9 27 3 7 28 11 87 26 20 81 12 9 1 26 6 44 24 19 3 24 9 46 23 2 30 21 20 23 21 14 11 4 17 18 20 6 48 19 21 24  18 9 39 16 19 42 17 4 4 15 11 28 14 18 53 13 3 25 12 14 6 11 3 37 9 19 38
Dec. 11 3 85 11 5 40		0	126 9 1	13 26 6 36	3	1	•	T

Mean Vernal	Month.	Mean New	True New	Mean		Mean New	True New
Equinox.	autitii.	(O Full Ecl.)	Moon. (O Full Ecl.)	Vernal Equinox.	Month.	Moon.	Moon. (O Full Ecl.)
B.C.		d. h. m.	d. h. m.	Б.О		d. h. m.	d. h. m.
1196.	JAN	6 7 30	6 20 21	B.C. 1193.	JAN	3 22 39	
F.	FEB	4 20 14	5 9 42	С.В.	FEB.	2 11 23	3 17 57
A 70mil	MAR	(6 8 58	6 20 17	April.	MAR.	3 0 8	2 11 31 3 4 59
d. h. m.	0	[21 3 20]	21 0 31	d. h. m. 1 3 39	APRIL	1 12 52	1 21 15
1 10 13	APRIL	4 21 42	5 4 36			(1 1 36	1 11 31
	May .	4 10 26	4 11 35	İ	MAY.	30 14 20	30 23 33
	JUNE.	2 23 10	2 18 17		JUNE .	29 3 4	29 9 42
	July.	2 11 54	(2 1 50		JULY.	28 15 48	28 18 45
	Aug	(1 0 38	(31 11 16		Aug.	27 4 32	27 3 37
]		(30 13 22	29 23 29		SEPT.	25 17 16	25 13 2
	0	(14 7 44	14 12 18		Oct.	25 6 0	24 23 27
	SEPT	29 2 6	28 14 49		Nov.	23 18 44	23 11 9
	Ост	28 14 50	28 8 47		DEC	28 7 28	23 0 7
	Nov	27 3 34	27 4 15			1 .	
1	DEC	26 16 18	26 23 33	1100	_ 0	<b>7</b> 1 50	7 14 39
1195.	JAN	25 5 2	25 17 4	1192.	JAN	(21 20 12	21 14 23
E.	FEB.	28 17 46	25 17 4 24 7 43	_ <del>_</del> .	FEB	20 8 56	20 5 41
	0	(10 12 8	10 6 16	1 0 00	MAR	21 21 40	21 21 37
	MAR.	25 6 30	25 19 18	1 9 28	APRIL	20 10 24	20 13 33
1 16 2	APRIL	23 19 14	24 4 17		MAY.	19 23 8	20 4 44
	MAY .	23 7 58	23 11 36	İ	June.	18 11 52	18 18 36
	June .	21 20 42	21 18 20		O T	3 6 14	2 18 31
1	JULY.	21 9 26	21 1 37		JULY . Aug	(18 0 36	18 7 0
1	Aug	19 22 10	19 10 26		SEPT.	16 13 20	16 18 13
	0	( 3 16 32	3 21 42		Oct	15 2 4	15 4 48
1	SEPT	18 10 54	17 21 37		Nov.	14 14 48 13 3 32	14 15 17
	Ocr	17 23 38	17 11 36		DEC.		13 1 59 12 12 58
	Nov	16 12 22	16 4 15		0	$\begin{cases} 12 & 16 & 16 \\ 27 & 10 & 38 \end{cases}$	27 20 29
	DEC	16 1 6	15 22 44			(21 10 30	21 20 20
1194.	JAN.	14 13 50		1191. G.	JAN	11 5 0	11 0 20
D.	FEB.	(13 2 34	14 17 46 13 11 45	<b>u</b> •	FEB	9 17 44	9 12 13
	0	27 20 56	27 18 58	1 15	MAR	<b>11</b> € 29	11 0 55
	MAR.	14 15 19	15 3 30	1 15 17	APRIL	9 19 13	9 14 42 .
1 21 50	APRIL	13 4 3	13 16 26		MAY.	9 7 57	9 5 27
1	MAY.	12 16 47	13 2 43		JUNE .	5 7 20 41	7 20 48
İ	JUNE .	11 5 31	11 11 7		O T	(22 15 3	22 9 52
	JULY.	10 18 15	10 18 38		JULY.	7 9 25	7 12 9
	Aug	(9 6 59	9 2 22		AUG	5 22 9	6 2 51
	0	24 1 21	24 0 7		Oct.	4 10 53	4 16 38
	SEPT	7 19 43	7 11 12		Nov.	3 23 37 2 12 21	4 5 26 2 17 26
	Ocr	7 8 27	6 21 47		1104.		2 17 26
	Nov	5 21 11	5 7 29		DEC. O	$\binom{2}{16} \frac{1}{19} \frac{5}{27}$	16 20 18
	DEC	5 9 55	5 1 20		220.0	31 13 49	31 15 21
<u> </u>				I	[	VOI 15 49	OT TO TT

Mean Vernal Equinox.	Month.	Mean N ew Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl).	True New Moon. (O Full Ecl.)
B.C. 1190.	Jan	d. h. m. 30 2 33	d. h. m. 30 1 26	B.C. 1187.	JAN	d. h. m. 26 17 43	d. h. m.
F.	FEB	28 15 17	28 11 19	в.	FEB	25 6 27	25 19 16
d. $h.$ $m.$	MAR	30 4 1	29 21 36	Annil	MAR	26 19 11	27 4 30
<b>1 21</b> 6	APRIL	28 16 45	28 8 58	April. $d. h. m.$	0	(10 13 33	10 11 33
	MAY .	28 5 29	27 21 59	1 14 32	APRIL	25 7 55	25 11 57
	0	(11 23 51	12 3 5		MAY.	24 20 39	24 18 37
	June.	[26 18 1 <b>3</b> ]	26 12 44		JUNE.	23 9 23	23 1 35
	JULY.	26 6 57	26 4 47		JULY.	22 22 7	22 10 1
	AUG.	24 19 41	24 21 21		Aug	21 10 51	20 20 51
	SEPT.	23 8 25	23 13 38		SEPT	19 23 35	19 10 40
	Oct.	22 21 9	23 4 55		0	( 4 17 57	4 22 12
	Nov.	21 9 53	21 18 45		Oct	19 12 19	19 3 29
	DEC.	20 22 37	21 6 58		Nov.	18 1 3	17 22 24
	1080	20 22 01	<b>21.</b> 0 00	l	DEC.	17 13 47	17 17 59
1189.	JAN.	19 11 21	19 17 35		DE0	1 20 2.	1. 1. 60
E.D.	FEB.	18 0 5	18 2 51		_	10.00	10 10 00
	MAR.	18 12 50	18 11 18	1186.	JAN	16 2 31	16 12 30
1 0 ==	Į.	17 1 34	16 19 40	Α.	FEB	14 15 15	15 4 35
1 2 55	APRIL				MAR	16 4 0	16 17 38
		1 19 56	2 6 58 16 4 56	1 20 21	APRIL	14 16 44	15 3 46
	MAY.	(16 14 18			MAY .	14 5 28	14 11 47
	June .	15 3 2	14 16 2		JUNE.	12 18 12	12 18 42
	JULY.	14 15 46	14 5 33		JULY.	12 6 56	12 1 41
	Aug	13 4 30	12 21 26		Aug	10 19 40	10 9 44
	SEPT	11 17 14	11 15 5		SEPT	9 8 24	8 19 47
ĺ	Oct	$\int 11  5  58$	<b>11</b> 9 19		Ост	8 21 8	8 8 23
1	0	26 0 20	25 15 32		Nov	7 9 52	6 23 45
	Nov	9 18 42	10 2 51		DEC	6 22 36	6 17 23
	DEC	9 7 26	9 18 37				
	1		l	1185.	JAN	5 11 20	5 12 1
1188.	JAN	7 20 10	8 8 4	G.F.	FEB.	(4 0 4	4 6 41
	FEB	I .	6 19 4		0	18 18 26	18 18 29
1	MAR	7 21 39	8 4 4		MAR.	4 12 49	4 23 34
1 8 43	APRIL	6 10 23	6 11 39	1 2 10	APRIL	3 1 33	3 13 52
1	0	21 4 45	21 11 2	1 2 10	MAY.	2 14 17	3 1 26
	MAY .	5 23 7	5 18 48		THEAT .	(1 3 1	1 10 42
]	JUNE .	4 11 51	4 2 34		JUNE .	30 15 45	30 18 40
1	July .	4 0 35	3 12 2		T	30 4 29	30 2 21
1	Aug	2 13 19	2 0 6		July.	(13 22 51	13 18 3
<b>]</b> .	1_	(1 2 3	31 15 10		Aug.	28 17 18	
1	SEPT.	30 14 47	30 8 50		1	27 5 57	26 20 31
1		(15 9 9	15 6 54		SEPT	26 18 41	26 8 11
	OCT.	80 3 31	30 4 0		Oct.	25 7 25	24 21 56
9	Nov.	1 -	28 23 7		Nov.	25 7 25 24 20 9	1
	DEC		28 16 36		DEC	2± 20 3	21 10 00
	1				1	<u> </u>	

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Mean Vernal Equinox.	Month.	1 7	an New Moon. Full Ecl.)	1 M	ie N Loon ull I	ı.	Mer Veri Equir	aal	м	Ionth.	Mean Mo (O Fu	on.	- 1	True Mo O Fu	on.	- 1
B.C. 1184. E. April. d. h. n 1 7 5		. 25 . 22 . 25 . 2 . 2 . 1 . 1	7 3 15 1 21 37 3 10 21 1 23 5 1 11 49 0 0 33 9 13 17 3 7 39	23 7 21 23 22 21 21 20 19 20 19 21 18 31 18 31	10 23 16 8 8 18 18 18 18 18 18 18 18 18 18 18 18	31 57 56 43 0 11 3 22 3 5		31. A.	F M A A M S C I	AN  LEB  IAR  LPRIL  IAY .  O  TUNE .  SEPT  O  O  Dec	21 19 20 18 18 (1 16 16 14 13 12 (11 26	1 5 14 1 2 5 21 1 15 4 1 17 5 18 7	3 17 31 15 59 21 43 27 11	21 19 1 19 2 18 17 : 2 16 15 : 14 13 13	20 6 4 18 8 8 8 23 8	5 9 10 38 7 27 59 35 24 32 20 41
1183 D.	Jan. O Feb	1	12 17 4 27 12 3 11 6 2	3 2	8 :	1 12 1 8 1 43	11	80. <sub>G</sub> .	- 1	Jan Feb	1 -	21		8		88
1 18	MAI	IL 7 . E . Y . {	12 19 11 17 7 5 10 20 8 9 9 2 2 8 22 28 16 9 5 28 5 12 1 4 1 8 18 4	0 1 4 1 8 1 22 6 28 2 60 34 18 2	2 1 <sup>1</sup> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 7 8 57 0 21 5 11 4 29 3 14 6 31 3 38 14 21 1 4 11 55	1	7 14		MAR APRIL MAY . O JUNE . JULY . AUG SEPT O OCT O Nov	7 { 7 { 22 6 5 4 2 { 31 { 15 30	6 0 13 2 14 3 16 10 4	48 10 32 16 0 44 28 12 34 56	7 7 22 5 5 8 2 2 31 15 30	16 18 1 16 9 4 22 1	48 1 40 54 48 45 2 18 59 18
118 c.		3	( 2 2 3 (81 <b>15</b> 3 	- 1	81. 1	22 58 10 <b>1</b> 7 		170		DEC. JAN.	. 28	17	40	30	18	54
1 19		R	2 3 31 16 30 5	43		22 15 11 11 1 15		179. F.		FEB. MAR.	. 26	3 <b>1</b> 9	8 53	27 28	' { 3 11	-
	Ju Ju Au Se Oc No	NE . LY . UG PT OV	24 21	55 39 23 7 51 35 57	28 27 26 25 24 23 7	16 20 7 50 23 7 13 39 8 18 15 56 3 30 14 30 14 30	6   6   6   6   6   6   6   6   6   6	18	8	MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	. 26 . 26 . 26 . 25 . 25	4 22 4 10 2 28 1 12 1 1 9 18	21 2 5 3 49 3 33 2 17	26 24 25 25 27 27 27 20 3	3 2 1 10 3 2 2 10	2 12 0 89 1 20 0 58 8 82 2 18 7 42

		Ji	erusalem C	IVIL LIME.			<del></del>
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ed.)	True New Moon. Full Ecl.)
B.C. 1178. E. April. d. h. m. 1 18 51	APRIL MAY JUNE JULY AUG. SEPT.	d. h. m. 17 15 13 16 3 57 17 16 41 (1 11 3 16 5 25 15 18 9 14 6 53 13 19 37 12 8 21 (10 21 5	d. h. m. 18 4 25 16 17 41 18 4 2 1 7 24 16 12 11 15 19 2 14 1 48 13 9 21 11 18 57 10 7 19	B.C. 1175. A. April. d. h. m. 1 12 18	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	d. h. m.  14 6 28 12 19 7 14 7 51 12 20 85 12 9 19 10 22 8 10 10 47 8 28 31 7 12 15 7 0 59 5 18 48	d. h. m.  14 1 51  12 18 54  14 11 55  13 3 56  12 18 13  11 6 29  10 17 2  9 2 34  7 11 54  6 21 42  5 8 19
1177. D.C. 1 0 4	MAY JUNE JULY AUG O SEPT OCT NOV DEC	8 22 33 8 11 17 7 0 1 5 12 45 6 1 36 20 19 56 4 14 16 4 2 56 2 15 4 2 4 2 31 17 1 30 5 5 14 0 1 28 18 3 28 7 2 26 20 26 8 3 24 21 23 10	9 22 44 8 16 47 8 12 12 7 7 23 6 0 43 6 15 15 2 20 13 43 4 11 33 2 2 19 0 2 1 55 6 0 31 9 26 4 29 18 33 14 5 22 2 19 0 2 1 5 5 6 6 6 4 2 2 1 5 5 6 6 6 4 2 2 1 5 5 3 2 2 1 9 0 2 2 1 9 0 2 1 9 0 2	1 18 7 3 3 3 6 3 7 4 6 6 7 7 11 1173. F.E. Marcl 31 23 5	DEC.  JAN.  FEB.  MAR.  APRIL  MAY  JUNE  O  JULY  AUG.  SEPT.  NOV.  DEC.	5 2 27  \[ \begin{array}{cccccccccccccccccccccccccccccccccccc	30 1 26 14 1 57 29 14 19 28 2 8 26 13 15 26 0 7 24 10 58 23 21 49 2 8 4 25 4 22 8 47 8 20 20 6 2 1 8 12 6 19 21 26
1 6	Ju: Ju: At Se Oc	RIL 23 11	31 23 9 15 21 18 59 21 2 43 19 10 5 3 7 3 27 17 19 5 11 17 6 5 5 15 19	28   52   28   21   27   24   38   26   8	DE	18 4 2 2 2 4 17 17 16 5 14 18 14 7 12 20 (12 8	44     18     3     17       46     2     17     25       8     17     18     55       52     16     10     9       36     15     0     38       20     14     13     56       4     13     2     16

Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.		(O Full Ecl.)	(O Lait Ect.)	Equinox.		(O Full Ecl.)	(O Luii Eci.)
B.C.		d. h. m.	d. h. m.	B.C. 1169.		d. h. m.	d. h. m.
1172.	JAN	10 21 32	11 0 5	A.G.	JAN	8 12 42	9 0 40
D	FEB	9 10 16	9 9 46	March. d. h. m.	FEB	7 1 26	7 15 28
April. d. h. m.	MAR	10 23 1	10 19 9	31 23 11	MAR	7 14 11	8 3 4
1 5 44	APRIL	9 11 45	9 4 55		APRIL	(6 2 55	6 12 7
	May.	9 0 29	8 15 51		0	20 21 17	20 18 12
	JUNE.	(7 13 13	7 4 38		MAY .	5 15 39	5 19 25
	0	22 7 35	22 10 32		June .	4 4 23	428
	JULY.	7 1 57	6 19 22		JULY .	3 17 7	398
	Aug	5 14 41	5 11 40			(2 5 51	1 17 42
	SEPT.	4 3 25	4 4 43		Aug	81 18 35	31 4 41
	Oct	3 16 9	3 21 35		SEPT	30 7 19	29 18 89
	Nov.	2 4 53	2 13 21		ľ	(15 1 41	15 6 48
	_	(1 17 37	2 3 28		OCT.	29 20 3	29 11 32
	Dec	81 6 21	31 15 42		Nov.	28 8 47	28 6 25
		(91 0 21	OT 19 42				28 6 25 28 1 51
	_	20 1-	00 -		DEC	27 21 31	40 I UL
1171.	JAN	29 19 5	30 2 6				
c.	FEB	28 7 49	28 11 0	1168.	JAN	26 10 15	26 20 11
	MAR	29 20 34	29 19 2	F.	FEB	24 22 59	25 <b>12 5</b>
1 11 33	APRIL	28 9 <b>1</b> 8	28 3 0	April.	MAR	26 11 44	27 1 <b>1</b>
	MAY.	27 22 2	27 12 0	1 5 0	APRIL	25 0 28	25 11 6
1	JUNE.	1	25 22 57		MAY .	24 13 12	24 19 8
]	JULY.		25 12 29	-	June .	23 1 56	23 <b>2 13</b>
	Aug.	1	24 4 36		JULY.	22 14 40	22 9 <b>27</b>
	SEPT.	1	22 22 36	l	Aug	21 3 21	20 17 <b>46</b>
	Ост.	Ł	22 17 15		SEPT	19 16 8	19 <b>4 8</b>
	0	§ 6 8 4			Ocr	19 4 52	18 16 47
	Nov.	1	21 11 8		Nov	17 17 36	17 8 5
	DEC.	. 20 15 10	21 3 5		DEC	17 6 20	17 1 27
1170.	JAN.	. 19 8 54	19 16 28		T	15 10 4	12 10 50
B.	FEB.	1		1167. E.	JAN.	15 19 4	15 19 52 14 14 1
	MAR.	1	1	E.	FEB	14 7 48	
1 17 22	APRIL	77.			Mun	1 2 10	1 2 36
1 11 22	O	(2 12 28		1 10 40	MAR.	(15 20 32	16 6 87
1	MAY	1		1 10 49	APRIL	14 9 16	14 20 50
	JUNE	1			MAY .	13 22 0	14 8 27
	JULY	- [			JUNE.	12 10 44	12 17 57
1	AUG.		1		JULY.	11 23 28	12 2 18
	SEPT.		1		Aug	(10 12 12	10 10 18
	Ост.	. (11 22 30			0	25 6 34	25 2 12
	001.	26 16 59			SEPT	9 0 56	8 19 8
	Nov.				Oct	8 13 40	8 5 7
	- T	9 23 58			Nov.	7 2 24	6 16 58
		. 0 20 00	3 10 <b>7 1</b> 1		DEC	6 15 8	6 6 27
	1	1	<u> </u>	1			

	1					7
Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Moon.	Full Ecl.)
JAN FEB O MAR APRIL MAY . JUNE . O AUG SEPT OCT NOV DEC	d. h. m. 5	d. h. m. 4 21 40 3 14 5 18 19 12 5 7 0 3 23 29 3 14 39 2 3 59 1 15 31 31 1 42 14 3 17 29 11 17 27 21 1 27 7 20 25 18 27 25 6 27	B.C. 1163. G. April. d. h. m. 1 10 4	JAN  FEB  MAR  APRIL  MAY .  O JUNE .  JULY .  AUG  SEPT  OCT  NOV  O DEC	d. h. m. { 1 19 2 { 81 7 46 } { 1 20 81 { 81 9 15 } 29 21 59 }	1 18 29 31 3 40 29 13 42 29 1 22 13 10 29 27 15 5 27 6 46 25 23 46 24 17 7 24 9 47 23 0 56 7 1 3 22 14 11
MAR. APRIL MAY JUNE JULY O AUG. SEPT. OCT.	7 19 47 22 14 9 23 2 54 21 15 33 21 4 25 19 17 6 19 5 56 3 0 1 17 18 3 16 7 1 15 20 14 8 4	8 9 16 9 22 9 16 1 23 0 5 21 15 32 2 21 6 59 3 19 21 49 0 19 11 35 2 10 47 4 18 0 11 8 16 11 53 2 15 23 4 6 14 10 2 18 20 51		MAR APRIL MAY O JUNE JULY AUG. SEPT. OCT. NOV. O DEC.	20 18 4 19 6 48 18 19 32 { 2 13 54 17 8 16 16 21 0 15 9 44 13 22 28 13 11 12 {11 23 56 26 18 18 11 12 40	21 1 24 19 10 49 20 19 0 19 2 41 18 10 55 2 23 0 16 20 41 16 8 53 14 23 50 13 17 10 13 11 51 12 6 26 26 10 48 11 23 34
APRI MAY JUNI JULI AUG SEPT OCT. NOV	10 22 5 12 11 4 11 0 2 11 10 13 5 12 13 14 13 15 16 15 16 15 16 15 16 16 17 17 18 17 18	10 18 26 10 18 9 10 10 18 9 10 10 7 50 54 8 22 45 88 8 14 26 7 6 11 6 5 21 20 50 5 11 8 34 4 0 8 18 3 12 8	E.D. March. 31 21 49	FEB. MAR. APRIL MAY JUNE JULY AUG. SEPT. OCT. NOV.	8 14 8 9 2 52 7 15 36 7 4 20 5 17 4 5 5 48 3 18 32 2 7 16 (1 20 0 81 8 42 2 9 21 25	1 18 29 1 11 14 31 6 8 30 1 41
	JAN  FEB  O MAR  APRIL MAY .  JUNE .  OCT  NOV  OCT  NOV  DEC  JAN  O FEB  MAR  APRIL MAY .  JUNE .  OCT  NOV  DEC  IAN  OCT  NOV  DEC  JAN  OCT  NOV  DEC  IAN  OCT  NOV  DEC  IAN  OCT  NOV  DEC  IAN  OCT  NOV  DEC  IAN  TEID  MAR  APRIL MAR  APRIL MAR  JUNE .  TEID  NOV  DEC  DE	Month.    Moon.   O Full Ecl.)	Month. (O Full Ecl.) (O Full Ecl.)    d. h. m.   d. h. m.     Jan.   5   3   52   4   21   40     Feb.   3   16   36   3   14   5     O   18   10   58   18   19   12     Mar.   5   5   21   5   7   0     April   3   18   5   3   23   29     May   3   6   49   3   14   39     June   1   19   33   2   3   59     July   3   6   49   3   14   39     June   1   19   33   2   3   59     July   3   6   49   3   14   39     June   1   19   33   2   3   59     July   3   6   49   3   14   39     June   1   19   33   2   3   59     July   29   45   29   11   17     Sept.   27   22   29   27   21   1     Oct.   27   11   13   27   7   20     Nov.   25   23   57   25   18   27     Dec.   25   12   41   25   6   27      Jan.   24   1   25   23   19   21     O   7   19   47   8   9   16     Feb.   22   14   9   22   9   16     Mar.   23   2   54   23   0   5      April   21   5   38   21   15   32     June   19   17   6   19   21   49     July   19   5   50   19   11   35     Oct.   15   20   2   15   23   4     Aug.   17   18   34   18   0   11     Sept.   16   7   18   16   11   53     Oct.   15   20   2   15   23   4     June   9   1   54   32   10   18   26      Mar   10   13   10   10   7   50      June   9   1   54   8   22   41     July   8   14   38   8   14   26     Aug.   7   3   22   7   6   11     Sept.   5   16   6   5   21   20     Oct.   5   4   50   5   11   3     Nov.   3   17   34   4   0   3     Dec.   6   6   5   12   20     Oct.   5   4   50   5   11   3     Dec.   6   6   6   5   12   20     Oct.   6   6   5   12   20     Oct.   7   3   4   0   3     Dec.   7   3   6   18   3   12   3      Dec.   7   8   6   18   3   12   3     Dec.   7   8   6   18   3   12   3     Dec.   7   8   6   18   3   12   3     Dec.   7   8   6   18   3   12   3     Dec.   7   8   6   18   3   12   3     Dec.   7   8   6   18   3   12   3     Dec.   7   8   6   18   3   12   3     Dec.   7   8   6   18   3   12   3     Dec.   7   8   6   18   3   12   3     Dec.   7   8   6   18   3   12   3     Dec.   7   8   6   18   3   12	Month. (O Full Ecl.) (O Full Ecl.)    d. h. m.   d. h. m.     Jan.   5	Month. (O Full Ect.) (O Full Ect.) Vernal Equinox.    Jan.	Month   Co Full Ech   Co Fu

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. (O Full Ecl.)
B.C. 1160.  c. April. d. h. m. 1 3 30	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O	d. h. m. 27 22 56 26 11 40 28 0 25 (11 18 47 (26 13 9 26 1 53 24 14 37 24 3 21 22 16 5 21 4 49 (5 28 11 (20 17 38	d. h. m. 28 12 22 27 1 29 28 11 41 11 14 14 27 0 41 26 2 29 24 9 14 23 17 0 22 2 46 20 15 18 6 5 3 20 6 50	B.C. 1157. G.F. March. d. h. m. 31 20 56	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	d. h. m. 25 14 6 24 2 50 24 15 35 23 4 19 22 17 3 21 5 47 20 18 31 19 7 15 17 19 59 17 8 48 15 21 27 15 10 11	d. h. m. 25 9 40 24 2 8 24 18 45 23 10 84 21 13 27 21 0 27 19 10 31 17 20 20 17 6 29 15 17 16 15 4 45
1159. B. 1 9 19	Nov DEC JAN FEE MAR O APRIL JUNE . JULY . AUG SEPT O OCT Nov	19 6 17 18 19 1 17 7 45 15 20 29 17 9 13 { 1 8 35 15 21 57 15 10 41 13 28 25 13 12 9 12 0 53 (10 13 87 {25 7 59 10 2 21 8 15 5	19 0 50 18 20 7 17 15 5 16 8 14 {17 22 36 31 21 4 16 9 59 15 18 56 14 2 26 18 9 34 11 17 23 10 2 44 25 13 20 9 14 18 8 4 20	1156. E. April. 1 2 45	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC	\$\ \begin{array}{cccccccccccccccccccccccccccccccccccc	13 16 58 29 7 2 12 6 4 13 20 8 12 11 6 12 2 31 10 17 46 10 8 17 24 9 28 8 21 48 7 10 7 6 21 47 5 9 1 4 19 56
1158. A. 1 15 8	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG. O SEPT. OOT Nov. DEC.	8 3 49 6 16 33 5 5 18 6 18 2 21 12 24 5 6 46 4 19 30 3 8 14 2 20 58 1 9 42 30 22 26 14 16 48	29 4 11 28 15 10 27 3 47	1155. D. 1 8 34	JAN  O FEB  MAR  APRIL  MAY .  JUNE .  O JULY .  AUG  SEPT  Oct  Nov  Dec	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3 6 85 18 12 12 1 17 7 8 8 52 1 15 24 1 4 10 80 18 24 29 9 50 14 1 4 29 1 48 27 17 86 26 8 85 25 22 29 24 11 8 28 22 31

Mean Vernal quinox.	Month.	Mean New Moon.	True New Moon. Tull Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
B.C. 1154. c. April. d. h. m. 1 14 28	O JAN FER MAR APRIL MAY . JUNE . O JULY . AUG SEFT OCT NOV DEC TAN.	d. h. m.  { 7 10 54 {22 5 16 20 18 0 22 6 45 20 19 29 20 8 18 18 15 19 {16 22 25 15 11 9 14 28 58 13 12 37 18 1 21 11 14 5	d. h. m. 7 11 56 22 8 48 20 17 59 22 2 51 20 12 9 19 22 45 18 11 18 8 18 4 18 2 5 16 18 42 15 12 15 15 5 87 13 21 49 18 12 8	B.C. 1151. F. April. d. h. m. 1 7 49	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT O NOV DEC	d. h. m.  18 20 26 17 9 10 18 21 55 17 10 39 { 2 5 1 { 16 23 23 15 12 7 15 0 51 13 13 35 12 2 19 { 11 15 3 { 26 9 25 10 3 47 9 16 31 8 5 15	d. h. m.  19 8 36 17 23 12 19 10 43 17 19 38 2 0 48 17 2 53 15 9 33 14 16 44 13 1 31 11 12 41 11 2 47 26 15 31 9 19 38 9 14 23
March. 81 20 12	JAN. FRII. MAR. APRII MAY JUNE JULY AUG. SEPT. OCT. NOV. O DEC.	. 10 2 49 . 10 15 83 . 9 4 17 . 8 17 1 . 7 5 45 . 6 18 29 . 5 7 18 . 8 19 57 . 8 8 41	10 10 29 10 19 2 9 2 88 8 10 19 6 19 4 6 5 57 4 19 84 8 11 55 8 6 14 2 1 14 16 9 12 1 19 22		JAN FEB MAR APRIL MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	6 17 59 8 6 43 6 19 27 6 8 11 4 20 55 4 9 39 2 22 23 { 1 11 7 30 28 51 8 30 12 35	7 8 42 8 19 26 7 8 15 6 18 20 5 2 26 4 9 46 2 17 17 1 1 56 30 12 27 30 1 16 28 16 25 28 9 27
1152. c. April. 1 2	JAN. FEB. MAR APR. O MAY JUNI JUL AUG SEP OCT O NOV	28 0 22 29 18 6 28 1 5 21 20 1 27 14 8 3 26 8 1 4 25 16 24 4 4 4 7 22 17 8 6 0 3 7 6 0 3	2 28 11 16 3 29 19 45 45 20 19 45 45 21 18 0 4 4 27 9 8 8 25 17 17 12 25 2 4 22 0 2 6 6 0 4 25 20 19 5	March. 31 19 2' 3 4 4 2 8 8 0 8 8 6 6 1.1 5		25 15 31 11 9 58 26 4 16 24 17 0 24 5 44 22 18 28 22 7 15 20 19 50 4 14 1 19 8 4 18 21 2 17 10	25 21 11 11 10 32 26 13 34 25 3 42 24 15 27 3 23 1 12 2 22 9 55 3 20 18 22 8 4 9 22 0 19 3 3 4 18 13 4 8 17 1 4

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT	d. h. m.  15 11 36  {14 0 20 28 18 42 15 13 4 14 1 48 18 14 32 12 3 16 11 16 0 (10 4 44 24 23 6 8 17 28 8 6 12	d. h. m. 15 5 43 18 21 33 ( 1 3 17 (15 18 57 14 6 6 18 21 13 12 10 47 11 22 43 10 9 24 24 10 34 8 19 32 8 5 42		JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT Nov	d. h. m.  13 2 46 11 15 30 12 4 14 10 16 58 10 5 42 { 8 18 26 23 12 48 8 7 10 6 19 54 5 8 38 4 21 22 3 10 6	d. h. m.  13 8 6 11 17 36 12 2 21 10 11 6 9 20 42 8 8 8 23 17 52 7 21 48 6 13 41 5 7 5 5 0 56 3 18 2
1147. A. 1 7 5	DEC  JAN FEB  O MAR APRIL MAY . JUNE .	6 18 56 6 7 40 4 20 24 ( 3 9 8 (18 3 80 4 21 53 3 10 37 2 28 21 1 12 5	6 16 16 6 3 21 4 15 2 3 3 24 18 17 12 4 16 41 3 6 57 2 22 2 1 13 25	1144. p. April. 1 0 81	JAN FEB MAR APRIL MAY .	\[ \begin{array}{cccccccccccccccccccccccccccccccccccc	8 9 81 17 9 24 1 22 48 81 9 50  1 18 57 81 2 45 29 10 7 28 18 6
1146.	JULY .  O AUG SEPT: . OCT NOV DEC	(30 13 33 (14 7 55 (29 2 17 27 15 1 27 3 45 25 16 29 25 5 13	1 4 30 80 18 44 13 18 27 29 7 56 27 20 18 27 7 51 25 19 0 25 5 44		O JUNE . JULY . AUG SEPT OCT NOV O DEC	12 21 87 27 15 59 27 4 48 25 17 27 24 6 11 23 18 55 22 7 89 7 2 1 21 20 28	18 5 56 27 8 46 26 15 58 25 7 4 24 0 40 28 19 41 22 14 84 6 19 35 22 7 50
1 12 54	JAN. FEB. MAR. APRIL MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	22 6 41 23 19 26 22 8 10 21 20 54 20 9 38 19 22 22 18 11 6	20 5 16 19 21 9 18 13 22 17 5 8 16 19 53 3 15 9 21 2 14 21 25		JAN FEB MAR APRIL MAY . O JUNE . JULY . SEPT OCT Nov DEC	20 9 7 18 21 51 20 10 86 18 23 20 18 12 4 { 2 6 26 { 17 0 48 16 13 32 15 2 16 13 15 0 13 3 44 11 16 28 11 5 12	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl	Mo	New oou. ill Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
B.C. 1142.	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG OCT O NOV. DEC. JAN. FEB. MAR. O APRIL MAY JUNE JULY AUG. SEPT.	d. h. m 9 17 56 8 6 44 9 19 26 8 8 8 7 20 5 6 9 3 5 22 2 4 11 2 23 4 { 2 12 5 17 6 6 27 4 27 16 { 11 11 26 5 25 18 24 7 23 19 22 8 20 21 { 5 15	d. 10 8 10 8 8 10 8 8 8 6 6 6 6 6 7 10 8 8 8 8 8 6 6 6 7 10 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	h. m. 4 9 20 10 9 8 19 11 3 7 9 55 16 48 0 45 10 45 13 34 14 59 0 8 53 0 3 56 8 5 44 1 4 2 6 17 1 6 2 1 44 9 5 13 17 2 12 1 2	1138. D. 1 11 22 3 3 5 0 8 9 9 7.7	JAN FEB MAR APRIL MAY . JUNE . JULY . OCT NOV DEC  JAN OFEB APRIL MAY . JUNE . APRIL MAY . JUNE . OCT OCT NOV OCT NOV OCT NOV OCT OCT OCT	25 8 7 23 20 5 23 20 5 23 9 8 21 22 1 21 11 3 5 5 2 19 23 4 18 12 3	30 18 83 29 4 53 28 15 22 27 2 13 26 18 29 3 25 1 14 9 14 59 2 23 13 44 7 25 3 14 23 17 43 5 23 8 56 9 22 0 18 8 21 15 14 5 4 17 9 7 20 5 15 1 18 18 15 5 18 6 26
1140. F. 81 28 4	APR MAI JUN AUG SEP	18 22 18 11 17 (15 15 18 12 15 15 15 15 17 . 15 15 18 1 15 18 1 11 11 18 11 11 12 19 1 12 12 12 12 12 12 12 12 12 12 12 12 1	49 1 33 1 17 3 1 46 0 8 4 30 3 14 5 58 4 42	18 12 5 18 4 5 16 22 15 16 17 9 81 18 16 0 15 13 14 0 13 9 11 18 10 3 24 22 9 12 8 0 7 12	50   1137. c.s.   1137. c.s.   March 81 17 19 18   6   24   4   2   20   54   0	JAN. O FEB.	. 16 2 4 . (14 15 2 29 9 4 . 13 4 1 . 13 16 3 . 11 18 3 . 10 7 . (9 19 . (24 14 . 8 8 . 6 21 . 6 10 . 4 22	3 16 4 58 27 14 15 17 49 29 19 53 11 13 1 19 56 13 11 32 40 11 22 31 11 10 53 8 10 0 56 52 9 16 27 14 24 8 50 36 8 8 48 20 7 1 8 4 6 16 44 48 5 7 6

B.C. 1136. Jan { 3 0 16 3 7 19 1133. E.D. March. d. h. m. 31 28 1 Mar 3 1 44 3 2 3 April 114 28 (1 10 28 Mar 1 3 12 (30 19 21 ) Equinox.	JAN FEB MAR APRIL O MAY .	d. h. m. 30 4 9 28 16 53, 29 5 38 27 18 22 (12 12 44	d. h. m. 30 16 23 29 6 50 29 18 18 28 3 2
B.C. 1136. Jan (3 0 16 3 7 19 133. E. D. March. d. h. m. 81 28 1 144 3 2 8 April 1 14 28 (1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 1 10 28 1 10	FEB MAR APRIL O MAY .	30 4 9 28 16 53 29 5 38 27 18 22	30 16 23 29 6 50 29 18 13
1136. Jan \begin{array}{c ccccccccccccccccccccccccccccccccccc	FEB MAR APRIL O MAY .	28 16 53 29 5 38 27 18 22	29 6 50 29 18 <b>13</b>
March. d. h. m. 31 28 1 Mar 3 1 44 3 2 3 April 1 14 28 (1 10 28)  March. 31 1 14 28 (1 10 28)	Mar April O May .	29 5 38 27 18 22	29 18 18
March. d. h. m. 31 28 1 Mar 3 1 44 3 2 3 April 114 28 (1 10 28	APRIL O MAY.	27 18 22	
31 28 1 MAR. 3 1 44 3 2 3 APRIL 1 14 28 1 10 28	O May.	1	28 3 2
APRIL 1 14 28 ( 1 10 28 )	MAY .	(12 12 44	
30 19 21			12 7 20
		27 7 6	27 10 17
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	JUNE .	25 19 50	25 17 4
June. 29 4 40 28 18 4	July .	25 8 34	25 0 27
O (13 23 2 14 1 38	Aug	23 21 18	23 9 27
July .   28 17 24 28 8 57	SEPT	22 10 2	21 20 51
Aug 27 6 8 27 1 51	Oct	21 22 46	21 11 0
Sept. 25 18 52 25 19 50	0	(5178	6 0 14
Ост 25 7 36 25 13 41	Nov	20 11 30	20 3 47
Nov 23 20 20 24 6 15	DEC	20 0 14	19 22 20
DEC. 23 9 4 23 20 43			
1195 JAN 21 21 48 22 8 48 1132.	Jan	18 12 58	18 17 15
1100.   Can.   21 21 20 22 0 20   C	FEB	17 1 42	17 11 5
FEB   20 10 52   20 18 41	MAR.	18 14 27	19 2 37
April.   MAR.   21 25 11 22 2 55	APRIL	17 3 11	17 15 22
1 4 50 APRIL 20 12 1 20 10 12	MAY.	16 15 55	17 1 31
MAY . 20 0 45 19 17 37	June .	15 4 39	15 9 51
June 18 13 29 18 2 14	JULY.	14 17 28	14 17 25
July . 18 2 13 17 13 6 Aug 16 14 57 16 2 49	Aug.	13 6 7	13 1 16
Aug. 16 14 57 16 2 49 Sept. 15 3 41 14 19 22	SEPT.	11 18 51	11 10 16
Oct 14 16 25 14 18 59	Oct.	11 7 35	10 21 2
Nov (13 5 9 13 9 15	Nov.	9 20 19	9 9 51
1	DEC.	9 9 3	9 0 47
(2. 20 01 2. 10 0			
DEC 12 17 58 18 8 85	T	7 01 47	7 17 25
1134. JAN 11 6 37 11 19 39 B.	JAN Feb	7 21 47 6 10 31	6 10 55
F. FEB 9 19 21 10 8 59	MAR	(7 28 15	8 4 15
MAR 11 8 5 11 19 11	.O	22 17 37	22 18 25
1 10 39 APRIL 9 20 49 10 3 21 April.	APRIL	6 11 59	6 20 21
MAY .   9 9 33   9 10 16	MAY.	6 0 43	6 10 28
0 (24 3 55 24 6 30 )	JUNE .	4 13 27	4 22 25
June. 7 22 17 7 17 0	JULY.	4 2 11	4 8 32
JULY . 7 11 1 7 0 37	Aug.	2 14 55	2 17 37
Aug. 5 28 45 5 10 15		1 3 39	1 2 36
SEPT. 4 12 29 3 22 41	SEPT. O	$\begin{cases} 1 & 3 & 33 \\ 15 & 22 & 1 \end{cases}$	15 16 52
Oct. 4 1 13 3 14 14		30 16 23	30 12 8
Nov.   { 2 13 57   2 8 21	Ост.	30 5 7	29 22 41
0 (17 8 19 17 9 39	Nov.	28 17 51	28 10 27
DEC 6 2 2 41 2 3 52	DEC.	28 6 35	27 28 26
31 15 25 31 23 4		20 0 50	1. 20 20

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
B.C. 1130.	Jan	d. h. m. 26 19 19	d. h. m. 26 13 39	B.C. 1127.	0	d. h. m.	d. h. m. 8 14 16
Δ.	FEB	25 8 3	25 4 54	D.	JAN	23 10 29	23 16 40
		(12 2 25	12 11 14		FEB.	21 23 13	22 1 49
April.	7/1	13	26 20 47	April.	MAR.	23 11 58	23 10 9
d. h. m.	MAR.	26 20 48		d. h. m.	APRIL	22 0 42	21 18 28
1 9 54	APRIL	25 9 32	25 12 39	1 3 21			21 3 45
	MAY .	24 22 16	25 3 45		MAY.	21 13 26	
	JUNE .	23 11 0	23 17 36		JUNE.	20 2 10	19 14 59
	JULY.	22 23 44	23 6 0		_ 0	§ 4 20 32	5 1 18
	Aug	21 12 28	21 17 15		JULY.	(19 14 54	19 4 39
	0	( 5 6 50	4 18 8		Aug	18 3 38	17 20 44
	SEPT	120 112	20 3 55		SEPT	16 16 22	16 14 31
	Ocr	19 13 56	19 14 30		Oct	16 5 6	16 8 49
	Nov.	18 2 40	18 1 14	1	Nov	14 17 50	15 2 20
	DEC.	17 15 24	17 12 14		DEC	(14 6 34	14 18 1
					0	29 0 56	28 17 44
4400	JAN.	16 4 8	15 23 32	1126.	JAN	12 19 18	13 7 18
1129. G.F.		. (14 16 52	1	C.	FEB.	11 8 2	11 18 7
G.F.	FEB.	ر ا	. 1		MAR.	12 20 47	13 2 55
March.	0	29 11 14	11 1 1	1 0 10	APRIL	11 9 31	11 10 25
81 15 43	1		1	1 9 10	1	10 22 15	10 15 47
	APRII			1	MAY .		9 1 20
	MAY	1			JUNE -	24 5 21	24 12 55
	June		1		\		8 10 57
	JULY	1	1	1	JULY -		6 23 13
	Aug.	1 2	1		Aug.		5 14 29
	0	24 15 3		H	SEPT.		5 8 21
*	SEPT.	8 10	1 8 <b>1</b> 5 50	1	0ст.		4 3 36
	Oct.	. 7 22 4	1	11	Nov.	4 2 39	1 11
4	Nov.	. 6 11 2	9 6 16 42	i	DEC.	. 13	1
	DEC.	. 6 0 1	8 6 3 58	·	0	18 9 45	1 1
					Т	(247	
1128.	JAN.	. 4 12 5	7 4 14 31	1125.	Jan.	° \\ 31 16 51	
E.	FEB.	3 1 4	1 3 0 30	B.A.	FEB.		1 6 38
31 21 3		-   -	I	March.		(153	
31 21 3	APRI	1	9 2 20 31	l 31 14 59	MAR.	18 18 19	
	MAY		1	4	APRII	29 7 8	1
	MAI	(143	15 O 1 O 0 5	8	MAY	. 28 19 47	
	Juni	. ) -	21 30 11 4	e∥	0	(12 14	9 12 17 18
	т	(00 =1	5 30 3 5	11	JUNE	130 00	1 .
1	July			_ 11	JULY		
	Aug			1	AUG.	0.5	9 24 19 58
1	SEPT		17 27 4 1	- 11	SEPT.		
1	Ост			5	Oct.	23 11 2	7 23 3 1
1	Nov		1 20 20	- 11	Nov.	00 0 1	1 21 22 2
4	DEC	24 21	$45 \mid 25 \mid 6 \mid 2$		DEC.	21 12 5	
i			1		I DEC.		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 1124.		d. h. m.	d. h. m.	B.C. 1121. D. C.	-	d. h. m.	d. h. m.
d. h. m.	JAN	20 1 39	20 11 56	March.	JAN	17 16 49	17 10 29
March.	FEB	18 14 23	19 3 48	d. h. m.	FEB	16 5 33	16 0 57
31 20 47	MAR.	20 3 8	20 16 38	31 14 14	MAR.	16 18 18	16 16 19
	APRIL	18 15 52	19 2 35		APRIL	15 7 2	15 8 4
	MAY .	18 4 36	18 10 30		May .	14 19 46	14 23 35
	JUNE .	16 17 20	16 17 25		June.	13 8 30	13 14 11
	JULY.	16 6 <b>4</b>	16 0 28		JULY.	12 21 14	13 3 30
	Aug	14 18 48	14 8 41		Aug	11 9 58	11 15 33
	SEPT	13 7 32	12 18 55		SEPT	9 22 42	10 2 45
	Ocr	(12 20 16	12 7 44		Oct	9 11 26	9 13 33
	0	27 14 38	27 22 9		Nov	8 0 10	8 0 19
	Nov	11 9 0	10 23 15		DEC	7 12 54	7119
	DEC	10 21 44	10 16 56				
				1120.	JAN	6 1 38	5 22 10
1123.	JAN	9 10 28	9 11 42	В.	FEB	(4 14 22	4 9 26
F.	FEB	7 23 12	8 6 5		0	19 8 44	19 22 46
April.	MAR	9 11 57	9 22 46	31 20 3	MAR.	6 3 6	5 21 19
1 2 36	APRIL	8 0 41	8 12 52	51 20 5	APRIL	4 15 50	4 10 13
	0	22 19 3	22 11 35		MAY.	4 4 34	4 0 17
	MAY .	7 13 25	8 0 16			2 17 18	2 15 22
	JUNE .	6 2 9	6 9 28		JUNE .	(262	2 6 55
	JULY .	5 14 53	5 17 27		JULY .	81 18 46	31 22 15
	Aug	4 3 37	4 1 12			(15 13 8	15 0 59
	SEPT	2 16 21	2 9 44		0	30 7 30	30 12 51
		(2 5 5	1 19 41		Aug.	28 20 14	29 2 29
	Oct. C	16 23 27	17 5 21	Ħ	SEPT	1	28 15 9
		(81 17 49	31 7 30		Oct.	28 8 58 26 21 42	27 2 52
	Nov.	30 6 33	29 21 20	1	Nov.	26 10 26	26 13 44
	DEC.	. 29 19 17	29 12 59	į	DEC	20 10 20	20 10 92
1122.	Jan.	. 28 8 1	28 5 55	1119.	Jan	24 23 10	24 28 50
E.	FEB.	. 26 20 45	26 23 14	A.	0	8 17 32	9 3 23
	MAR.	. 28 9 29	28 15 54		FEB	23 11 54	23 9 24
	0	∫12 3 51	12 2 1	April.	MAR	<b>25</b> 0 39	24 19 5
1 8 25	APRIL	126 22 18	27 7 1	1 1 52	APRIL	23 13 23	23 5 33
	MAY	. 26 10 57	26 20 7		MAY .	23 2 7	22 17 35
	JUNE	. 24 23 41	25 7 14		JUNE .	21 14 51	21 7 30
	JULY	. 24 12 25	24 16 58		JULY.	21 3 35	20 23 10
	Aug.	. 23 1 9	23 2 8		0	§ 4 21 57	4 16 42
1	SEPT.	. 21 13 59	21 11 31		Aug	19 16 19	19 15 58
	0	6 8 1	6 6 0	1	SEPT	18 5 3	18 8 47
	Ост.	. 21 2 3	7 20 21 41		Ocr. ,	17 17 47	18 0 56
	Nov.	. 19 15 2	19 8 51		Nov	16 6 31	16 15 48
	DEC.	- 19 4	5 18 21 7		DEC	15 19 15	16 4 45
	<u> </u>	<u> </u>	_	il			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)
B.C. 1118. G.	Jan  O Feb	d. h. m.  {14  7 59 29  2 21 12 20 43	d. h. m. 14 15 57 29 3 10 13 1 33 14 10 0	B.C. 1115. c. April. d. h. m. 1 1 7	JAN FEB MAR APRIL	d. h. m. 10 23 9 9 11 53 11 0 38 9 13 22	d. h. m. 11 6 52 10 0 1 11 14 20 10 1 36
d. h. m. 1 7 40	MAR APRIL MAY. JUNE.	14 9 28 12 22 12 12 10 56 10 23 40	12 18 0 12 2 31 10 12 34	11.	MAY . O JUNE . JULY .	$ \begin{cases} 9 & 2 & 6 \\ 23 & 20 & 28 \\ 7 & 14 & 50 \\ 7 & 3 & 34 \end{cases} $	9 10 23 23 13 55 7 17 42 7 0 40
	JULY .  O AUG SEPT	$     \begin{bmatrix}       10 & 12 & 24 \\       25 & 6 & 46 \\       9 & 1 & 8 \\       7 & 13 & 52     \end{bmatrix} $	10 0 57 25 9 19 8 15 56 7 9 9		Aug Sept Oct	5 16 18 4 5 2 3 17 46 ( 2 6 30	5 8 19 3 17 35 3 5 10 1 19 22
	Nov Dec	7 2 36 5 15 20 5 4 4	7 3 33 5 21 49 5 14 40		Nov O DEC	$ \begin{cases} 17 & 0.52 \\ 1 & 19.14 \\ 81 & 7.58 \end{cases} $	17 9 1 1 11 59 31 6 12
1117. F.E. March. 31 13 29	JAN FEB MAR APRIL	3 16 48 2 5 32 2 18 16 1 7 0	4 5 13 2 17 9 3 2 45 1 10 39 30 17 40	1114. B. 1 6 56	JAN FEB MAR	29 20 42 28 9 26 29 22 10 28 10 54	30 0 47 28 18 17 30 9 39 28 22 23
	MAY . JUNE . JULY . Aug.	28 9 56	30 0 54 28 9 28 27 20 22 26 10 12		O MAY . June . July .	$ \begin{cases} 18 & 5 & 16 \\ 27 & 23 & 38 \\ 26 & 12 & 22 \\ 26 & 1 & 6 \end{cases} $	12 20 9 28 8 39 26 17 14 26 1 10
	SEPT. OCT.		25 2 57 24 21 48 23 17 17 8 2 58		Aug Sept Oct Nov		24 9 24 22 18 44 22 5 41 20 18 28 20 9 7
1116. D.	DEC.  JAN. FEB.	. 23 1 36 . 21 14 20 . 20 3 4	23 11 41 22 3 43 20 16 45	1113. A.G. March.	JAN.	20 16 46 19 5 30 17 18 14 18 6 59	20 9 7 19 1 15 17 18 13 18 10 58
31 19 18	MAR. APRII MAY	20 4 83 . 19 17 17 3 11 39	19 17 43 3 12 58	31 12 45	MAR.	$\begin{cases} 2 & 1 & 21 \\ 16 & 19 & 48 \\ 16 & 8 & 27 \end{cases}$	2 2 9 17 3 2 16 17 12
	JUNE JULY AUG. SEPT.	. 17 18 45 . 16 7 29 . 14 20 18	17 8 11 15 17 58 14 6 33		JULY AUG. SEPT.	. 14 9 55	14 15 55 13 1 31 11 10 58
	Oct. Nov. O Dec.	27 16	1 12 16 23 3 27 18 37		Oct. Nov. Dec.	. 11 0 7 . 9 12 51 . 9 1 33	10 20 58 9 7 35

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl
B.C. 1112.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
F.	JAN	7 14 19	7 7 52	1109.	JAN	(5 5 29	5 14 55
d. h. m.	FEB	6 3 3	5 21 31	C.B.	0	19 23 51	19 21 59
31 18 33	MAR	7 15 48	7 12 9	March. $d. h. m.$	FEB	8 18 13	419
	0	22 10 10	22 19 4	31 12 0	MAR	4 6 58	4 9 55
	APRIL	6 4 32	6 3 33		APRIL	2 19 42	2 17 50
	MAY .	5 17 16	5 19 9			(2 8 26	2 1 47
	JUNE .	4 6 0	4 10 18		May .	31 21 10	31 10 49
	JULY .	3 <b>1</b> 8 <b>4</b> 4	4 0 27		June .	30 9 54	29 21 54
		6 2 7 28	2 13 22			(15 4 16	15 12 16
	Aug	31 20 12	2 10 22		O July.	29 22 38	29 11 88
	0	(15 14 34	(1 1 14		Aug.	28 11 22	28 8 56
	SEPT.	30 8 56	$\begin{cases} 15 & 1 & 51 \\ 30 & 12 & 26 \end{cases}$		SEPT.	27 0 6	26 22 5
	Ост.	29 21 40	29 23 24		Oct	26 12 50	26 16 48
	Nov.	28 10 24	28 10 13			25 1 34	25 10 89
1	DEC.	27 23 8	27 21 3		Nov	24 14 18	25 2 28
1	DEC.	21 25 0	21 21 5		DEC	24 14 16	20 2 20
	_			1108.	0	8 8 40	8 1 59
1111. E.	JAN	26 11 52	26 7 56	۸.	JAN	123 3 2	23 15 41
	FEB	25 0 36	24 19 11		FEB	21 15 46	22 2 17
	0	$\begin{cases} 11 & 18 & 58 \end{cases}$		31 17 49	MAR	23 4 30	23 10 46
April.	MAR	126 13 20		'	APRIL	21 17 14	21 17 58
1 0 22	APRIL	25 2 4	<b>24 20 2</b> 9		MAY .	21 5 58	21 0 58
	MAY .	24 14 48	24 10 59		June.	19 18 42	19 8 87
	JUNE .	23 3 32		İ		(4134	4 19 56
	JULY.	22 16 16	22 18 4		JULY.	119 7 26	18 18 18
	Aug	21 5 0			Aug.	17 20 10	17 6 87
	0	∫ 4 23 22	1		SEPT	16 8 54	15 22 4
	SEPT.	19 17 44			Ocr	15 21 38	15 16
	Oct				Nov	14 10 22	14 11 8
	Nov		18 1 33		DEC	(13 23 6	14 6 4
	DEC	17 7 56	17 12 52		0	28 17 28	28 13
1110.	JAN	15 20 40	15 23 12	1107.	JAN	12 11 50	13 0
D.	FEB.			G.	FEB	11 0 34	11 14 8
	MAR.			<b>31</b> 23 38	MAR	12 13 19	13 2
1 6 1			-5 -5 5		APRIL	11 2 3	11 10 5
	MAY.				MAY .	10 14 47	10 18
	June				June .	9 3 31	1
	JULY				0	123 21 54	23 23 5
	Aug.				JULY .	8 16 15	8 7 5
	SEPT.		1		Aug	7 4 59	6 16 8
	Oct.	1			SEPT	5 17 43	5 3 5
	Nov.		1 7 12 46	11	Oct	5 6 27	4 18
	DEC.	1	1	11	Nov	3 19 11	3 11
		1 22 1	40	!!	DEC	3 7 55	3 6
	; ## <del>***********************************</del>	1	1		1	1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
B.C. 1106. F. April. d. h. m. 1 5 26	JAN FEB MAR APRIL MAY .	d. h. m. { 1 20 39 } { 31 9 23 } { 1 22 7 } { 31 10 51 } 29 23 35 } 29 12 19 } 28 1 3	d. h. m. 2 1 24 81 19 84 2 11 16 81 28 57 80 9 52 29 17 51 28 0 55	B.C. 1103. B. d. h. m. March. 31 22 58	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG	d. h. m. 28 0 33 26 13 17 28 2 1 26 14 45 26 3 29 24 16 13 24 4 57 22 17 41	d. h. m. 27 18 36 26 8 26 27 28 13 26 14 36 26 6 2 24 20 51 24 10 37 22 28 15
1105. E.D. March. 31 11 15	JUNE. JULY. AUG. SEPT. OCT. O NOV. DEC. JAN. FEB. MAR. APRIL O MAY JUNE JULY AUG.	27 13 47 26 2 81 24 15 15 24 3 59 7 22 21 22 16 43 22 5 27 20 18 11 19 6 55 19 19 40 18 8 24 8 2 46 17 21 8 16 9 52	28 0 55 27 8 15 25 16 44 24 3 12 23 16 8 8 6 45 22 7 38 22 0 58 20 19 20 19 13 21 20 5 47 18 19 49 2 18 45 18 7 17 16 16 45 16 1 3 14 9 12	1102. A. April. 1 4 42	JAN FEB OMAR APRIL MAY . JUNE . JULY . A.UG O SEPT	21 6 25 20 19 9 19 7 58 18 20 37 17 9 21 15 22 5 2 16 27 17 10 50 15 23 34 15 12 18 14 1 2 18 18 46 (12 2 30 26 20 52 10 15 14	21 11 2 20 22 17 19 9 15 18 20 4 17 6 44 15 17 29 3 6 28 17 4 47 15 17 9 15 6 52 13 22 0 13 13 35 12 5 28 26 8 58 10 20 35
1104. c. 81 17	SEPT. OCT. O NOV. DEC. JAN. FEB.	. 13 0 4 . [12 12 48] 27 7 10 . 11 1 32 . 10 14 16 . 9 3 0 . 7 15 44 . 9 4 29 . [7 17 18] . 22 11 35 . 7 5 57 . 5 18 41 . 5 7 25 . 8 20 . 2 8 55 [1 21 3 . 10 2 . 29 23	12 18 7 12 4 20 27 18 27 10 16 12 10 5 51 8 21 8 7 18 26 9 6 15 7 22 87 7 7 18 40 6 2 57 5 14 25 9 6 15 6 2 57 5 14 25 9 6 13 47 1 20 8 9 16 13 47 1 31 6 34 5 29 17 45		OCT. NOV. DEC.  JAN. FEB. O MAR. APRIL MAY JUNE  JULY O AUG. SEPT. OCT. NOV. DEC.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 23 54 8 11 47 6 22 33 5 8 18 20 10 48 5 17 24 4 2 43 3 12 35 2 0 19 1 14 10 9 31 6 0 1 15 0 45 3 29 23 8 7 28 16 33 1 28 9 13 5 27 0 20

Mean Vernal Equinox.	Month,	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 1100. E. March. d. h. m. 31 16 19	JAN  FEB  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  SEPT  OCT  NOV  DEC	d. h. m.  24 15 43 ( 8 10 5 (23 4 27 24 17 11 23 5 55 22 18 39 21 7 23 20 20 7 ( 4 14 29 ( 19 8 51 17 21 35 17 10 19 15 23 3 15 11 47	d. h. m. 25 0 30 8 10 36 23 9 46 24 17 48 23 1 27 22 9 41 20 19 34 20 7 56 4 17 6 18 23 4 17 16 35 17 11 22 16 5 58 15 23 0	B.C. 1097. B.A. March. d. h. m. 31 9 46	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov O DEC	d. h. m.  22 6 53 20 19 87 21 8 21 19 21 5 19 9 49 { 3 4 11 { 17 22 38 17 11 17 16 0 1 14 12 45 14 1 29 { 12 14 18 { 27 8 85 12 2 57	d. h. m.  22 14 32 21 7 30 21 21 38 20 8 51 19 17 42 2 20 30 18 1 9 17 8 21 15 16 18 14 1 51 13 13 35 12 3 45 27 17 45 11 20 9
1099. D. 31 22 8	Jan Feb Mar April May . June . July . Aug Sept Oct Nov Dec O	14 0 31 12 13 15 14 2 0 12 14 44 12 3 28 10 16 12 10 4 56 8 17 40 7 6 24 6 19 8 5 7 52 { 4 20 36 { 19 14 58 3 9 20	14 18 38 18 1 20 14 10 42 12 18 18 12 1 7 10 8 16 9 16 49 8 3 47 6 17 47 6 10 48 5 5 44 4 5 1 16 19 11 51 3 19 42	1096. 6. 31 15 35	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov	10 15 41 9 4 25 10 17 10 9 5 54 { 8 18 38 {28 18 0 7 7 22 6 20 6 5 8 50 3 21 84 3 10 18 1 28 2 { 1 11 46 { 81 0 30	10 18 59 9 8 9 11 1 22 9 16 85 9 5 19 28 8 11 7 15 48 7 0 43 5 9 2 8 17 89 8 8 20 1 14 26 1 8 8 80 17 24
c. April. 1 3 57	MAR APRIL MAY .  O JUNE . JULY . AUG SEPT OCT NOV  O DEC	1 22 4 3 10 49 1 23 33 { 1 12 17 31 1 1 {14 19 28 29 18 45 29 2 29 27 15 13 26 3 57 25 16 41 24 5 25 { 8 23 47 23 18 9	2 11 39 4 0 32 2 10 32 1 18 24 31 1 11 14 19 26 29 7 59 28 15 52 27 1 50 25 14 36 25 6 18 24 0 25 9 3 35 28 19 42	1095. F. 31 21 24	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	29 18 14 28 1 59 29 14 48 {13 9 5 {28 3 27 27 16 11 26 4 55 25 17 39 24 6 23 22 19 7 22 7 51 20 20 35 20 9 19	29 9 0 28 1 26 29 17 56 13 9 48 28 9 88 27 28 58 26 12 24 25 28 28 24 9 81 22 19 25 22 5 41 20 16 82 20 4 1

Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl). (0	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
	· 1.	d. h. m.  18 22 8 17 10 47 18 23 31 ( 2 17 53 17 12 15 17 0 59 15 13 43 15 2 27 13 15 11	d. h. m.  18 16 12  17 5 15  18 19 17  3 2 44  17 10 12  17 1 35  15 16 50  15 7 22  13 20 49	B.C. 1091. A. March. d. h. m. 31 20 39	Jan  Feb Mar April May . June . July .	d. h. m. {15 13 12 30 7 84 14 1 56 15 14 41 14 3 25 13 16 9 12 4 53 {11 17 87 26 11 59	d. h. m.  15 28 29 30 5 35 14 9 28 15 17 51 14 1 25 13 9 5 11 17 55 11 4 56 26 16 25
	SEPT O OCT Nov DEC	$ \begin{cases} 12 & 3 & 55 \\ 26 & 22 & 17 \\ 11 & 16 & 39 \\ 10 & 5 & 23 \\ 9 & 18 & 7 \end{cases} $	12 9 17 26 9 42 11 21 0 10 8 15 9 19 10	1090.	Aug SEPT Oct Nov DEC	10 6 21 8 19 5 8 7 49 6 20 33 6 9 17	9 18 44 8 11 18 8 5 45 7 0 48 6 18 52 5 10 46
1093. D.C. March. 31 9 1	JAN FEB MAR O APRIL MAY .	8 6 51 6 19 35 7 8 20 22 2 42 5 21 4 5 9 48	8 5 46 6 16 12 7 2 53 22 16 7 5 14 23 5 3 10 3 17 28	April. 1 2 28	O FEE MAR APRIL MAY . JUNE .	19 16 23 3 10 45 4 28 30 8 12 14 3 0 58 1 13 42	11 90 15 50
	JUNE . JULY . AUG O SEPT OCT Nov	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 8 57 2 1 0 31 16 51 14 18 29 30 7 55 29 21 49 28 10 25	. ,	Aug Sept Oct Nov Dec	15 20 48 30 15 10 29 <b>3</b> 54 27 16 38 27 5 22	16 3 0 30 1 42 28 14 12 27 5 48 27 0 0 25 19 32
1092. B. 31 14 50	JAN FEB MAR APRIL	27 15 40 26 4 24 24 17 8 26 5 52 24 18 36	27 21 43 26 7 47 24 16 56 26 1 43 24 11 0	1089. F.E. March. 31 8 17	Jan Feb Mar April	\$\begin{cases} 9 & 1 & 12 \\ 28 & 19 & 34 \\ 22 & 21 & 2 \\ 21 & 9 & 46 \\ 20 & 22 & 30 \end{cases}\$	8 21 45 4 24 7 58 8 22 22 21 2 23 9 38 2 21 18 24 2 21 1 34
	MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	19 10 16 18 23 0 17 11 44	17 21 14		JUNE O JULY AUG. SEPT. OCT. Nov. DEC.	4 5 30 18 23 50 17 12 42	3 4 6 28 3 18 15 33 2 17 0 29 3 15 11 52 0 15 2 10 4 13 19 10

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 1088.		d. h. m.	d. h. m.	B.C. 1085.		d. h. m.	d. h. m.
D. March.	JAN	12 4 22	12 9 6	A.G.	JAN	9 19 32	9 14 15
d. h. m.	FEB	10 17 6	11 3 2	March. $d. h. m.$	FEB.	8 8 16	8 2 35
31 14 5	MAR	12 5 51	12 18 35	31 7 32	MAR.	8 21 1	8 15 49
	APRIL	10 18 35	11 7 11		APRIL	7 9 45	7 6 3
	MAY.	10 7 19	10 17 8		0	22 4 7	22 10 17
	JUNE.	8 20 3	9 1 13		MAY .	6 22 29	6 21 6
	JULY.	8 8 47	8 8 33		June.	5 11 13	5 12 30
	Avg	6 21 31	6 16 10		JULY.	4 23 57	5 8 35
	SEPT	5 10 15	5 0 58		Aug	3 12 41	3 17 51
	Ост	.4 22 59	4 11 40		SEPT	2 1 25	2 7 5
	Nov	3 11 43	3 0 38		Ост	(1149	1 19 26
	0	(18 6 5	18 15 24		Oct	\text{\delta_31}  2  53	31 7 5
	DEC	3 0 27	2 15 53		Nov	29 15 37	29 18 14
100=	<b>.</b>	( 1 13 11	1 8 56		DEC	29 4 21	29 4 55
1087. c.	JAN	(31 1 55	31 2 51				1
0.	FEB.			1084.	JAN	27 17 5	27 15 12
31 19 54	М	( 1 14 40	1 20 31	F.	FEB	26 5 49	26 1 25
01 10 01	MAR	$\{31 \ 3 \ 24$	31 12 41		0	$[13 \ 0 \ 11]$	13 13 51
	APRIL	29 16 8	30 2 40	31 13 21	MAR	127 18 34	27 12 10
	0	(14 10 30	14 1 55		APRIL	26 7 18	26 0 1
	MAY .	29 4 52	29 14 19		MAY.	25 20 2	25 13 25
	JUNE .	27 17 36	28 0 3		June.	24 8 46	24 4 22
	JULY .	27 6 20	27 8 45		JULY.	23 21 30	28 20 11
	Aug	25 19 4	25 17 20		Aug	22 10 14	22 12 38
	SEPT	24 7 48	24 2 38		0	$\begin{cases} 6 & 4 & 36 \\ 30 & 32 & 70 \end{cases}$	5 17 7
	Oct	23 20 32	23 13 5		SEPT	120 22 58	21 4 27
	0	j 7 14 54	7 21 35		Oct	20 11 42	20 19 14
	Nov	(22 9 16	22 0 58		Nov Dec	19 0 26 18 13 10	19 8 40 18 20 39
	DEC	21 22 0	21 14 20		DEC.	19 19 10	10 20 55
1086.	JAN	20 10 44	20 5 3	1083.	JAN	17 1 54	17 7 13
В.	FEB	18 23 28	18 20 52	E.	FEB.	15 14 38	15 16 35
April.	MAR.	20 12 12	20 13 10		0	(2 9 0	2 17 56
1 1 43	APRIL	19 0 56	19 5 13	31 19 10	MAR	17 3 22	17 1 14
	0	∫ 3 19 18	3 17 7		APRIL	15 16 6	15 9 56
	MAY.	18 13 40	18 20 14		MAY .	15 4 50	14 19 85
	JUNE .	17 2 24	17 9 44		JUNE .	13 17 34	13 7 6
	JULY.	16 15 8	16 21 40		JULY .	13 6 18	12 20 54
-	Aug.	15 3 52	15 8 24		Aug	(11 19 2	11 12 57
	SEPT	13 16 36	13 18 36		0	26 13 24	26 8 52
	Oct	<b>∫</b> 18 5 20	13 4 51		SEPT	10 7 46	10 6 29
	0	127 23 42	27 21 36		Oct	9 20 30	10 0 24
1.	Nov.	11 18 4	11 15 30		Nov	8 9 14	8 17 30
	DEC.	11 6 48	11 2 36		DEC	7 21 58	8 8 54
	<u> </u>			1		1	

Mean Vernal Equinox.	Month.	Mean New T Moon. Full Ecl.)(()	rue New Moon. Full Ecl.)	Mean Vernal Equinox.	Month	Mean New Moon. O Full Ecl.)	True New Moon. Tull Ecl.)
B.C. 1082. D. April. d. h. m. 1 0 58	JAN FEB O MAR APRIL MAY .	6 10 42 6 4 23 26	d. h. m. 6 22 2 5 8 52 19 17 53 6 17 50 5 1 32 4 8 52	B.C. 1079. G. March. d. h. m. 31 18 25	JAN FEB MAR APRIL	d. h. m. 3 1 52 1 14 36 3 3 21 1 16 5 { 1 4 49 30 17 33	d. h. m.  3 3 29 1 22 4 3 14 48 2 4 49 1 16 2 31 0 59
	JUNE . JULY .  AUG. O  SEPT OCT Nov DEC	$\begin{cases} 15 & 22 & 13 \\ 15 & 22 & 13 \\ 30 & 16 & 35 \\ 29 & 5 & 19 \end{cases}$	2 16 53 2 2 40 31 15 4 16 0 59 30 6 23 29 0 10 28 19 16 27 14 7 27 7 16		O JUNE . JULY . AUG SEPT OCT NOV O	$ \begin{cases} 14 \ 11 \ 55 \\ 29 \ 6 \ 17 \\ 28 \ 19 \ 1 \\ 27 \ 7 \ 45 \\ 25 \ 20 \ 29 \\ 25 \ 9 \ 18 \\ 23 \ 21 \ 57 \\ \begin{cases} 8 \ 16 \ 19 \\ 23 \ 10 \ 41 \end{cases} $	14
1081. C.B. March. 31 6 47	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	25 8 15 28 20 59 24 9 44 22 22 28 22 11 12 20 23 56 20 12 40 19 1 24 17 14 8 17 2 52 15 15 36 {15 4 20 29 22 42	25 21 46 24 9 22 24 18 29 25 8 35 20 15 40 20 0 16 18 11 22 17 1 31 16 18 35 15 13 41 15 9 14 29 20 39	1078. F. April. 1 0 14	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV DEC	21 23 25 20 12 9 22 0 53 20 13 37 20 2 21 { \$ 20 43 18 15 5 18 3 49 16 16 33 15 5 17 14 18 1 13 6 45 12 19 29	21 21 42 20 15 25 22 8 16 20 23 21 20 12 12 3 10 13 18 22 56 18 8 14 16 16 59 15 2 4 14 12 3 12 23 15 12 11 47
1080. A. 31 12 36	Jan Feb	13 17 4 12 5 48 13 18 32 12 7 16 11 20 0 {10 8 44 25 3 6 9 21 28	14 3 35 12 19 25 14 8 8 12 18 1 12 1 49 10 8 38 25 1 56 9 15 34 7 23 40		JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG	11 8 13 9 20 57 10 9 42 8 22 26 23 16 48 8 11 10 6 23 54 6 12 88 5 1 22	23 17 21 8 16 9 7 6 32 6 19 25 5 6 56
, a	SEPT. OCT. Nov. DEc. O	0.00 70	6 9 52 5 22 45 4 14 29 4 8 28 19 12 29	3	Oct Nov Dec	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	

			JERUSALEM	OIVIL IIM	IE.		
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal Equinox.		Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ec
B.C. 1076.		d. h. m.	d. h. m.			d. h. m.	d. h. m
c. March.	JAN	29 5 46	29 0 25	B.C. 1073.	JAN	26 20 56	
d. h. m.	FEB	27 18 31	27 12 52	G.F.		(10 15 18	27 7 56
31 11 51	MAR.	29 7 15	29 2 19	March.	FEB.	14	10 13 6
	0	(13 1 37	13 10 19	d. h. m 31 5 18	• 1	25 9 40	25 17 38
	APRIL	27 19 59	27 16 47	01 0 10	APRIL	25 22 25 24 11 9	26 1 42
	MAY .	27 8 43	27 8 0		MAY.	24 11 9 23 23 53	24 8 56
	JUNE.	25 21 27	25 23 24		June .	22 12 37	23 16 22
	JULY.	25 10 11	25 14 21	İ	JULY.	22 12 37	22 1 5
	Aug.	23 22 55	24 4 24		0	(5 19 43	21 12 7
	SEPT	22 11 39	22 17 29		Aug.	1300	6 0 7
	0	7 6 1	6 17 43		SEPT.	19 2 49	20 2 2
	Oct	22 0 23	22 5 42		Oct.	18 15 33	18 18 47 18 13 32
	Nov.	20 13 7	20 17 12		Nov.	17 4 17	
	DEC.	20 1 51	20 4 5		DEC.	16 17 1	17 8 50 17 3 4
1075.	T			1072.			
B.	JAN.	18 14 35	18 14 24	E.	JAN	15 5 45	15 18 58
<b>31 17 4</b> 0	FEB.	17 3 19	17 0 22		FEB.	(30 0 7	29 18 13
OT T1 40	MAR.	18 16 3	18 10 29	31 11 7	MAR.	13 18 29	14 7 56
	1	$\begin{cases} 2 & 10 & 25 \end{cases}$	2 23 26		APRIL	15 7 13	15 18 6
	APRIL	(17 4 47	16 21 26		MAY.	13 19 57 13 8 41	14 2 7
	MAY . JUNE .	16 17 31	16 9 50		JUNE .	13 8 41 11 21 25	13 8 57
	JULY.	15 6 15	14 23 58		JULY.		11 15 42 10 23 27
	Aug.	14 18 59	14 15 36		O .	1	26 10 9
	SEPT.	13 7 43	13 8 3		Aug.	9 22 53	20 10 9 9 9 <b>1</b> 5
	0	$ \begin{cases} 11 & 20 & 27 \\ 26 & 14 & 49 \end{cases} $	12 0 27	:	SEPT.	8 11 37	7 21 56
	Oct	11 9 11	26 2 48 1 11 16 5		Ocr.	8 0 21	7 13 40
,	Nov.	9 21 55	11 16 5 10 6 26	·	Nov.	6 13 5	6 7 57
	DEC.	9 10 39	9 19 14		DEC	6 1 49	6 3 29
		_5 50	13	1071.	JAN.	( 4 14 33	
1074.	JAN	7 28 28	8 6 26	D,	J-		4 22 36
A.	FEB.	6 12 7	6 16 13		FEB.	3 3 17	19 6 17 <b>3 1</b> 5 43
	MAR	8 0 52	8 0 58	31 16 56	Mar.	4 16 2	5 5 5 5 7
31 23 29	APRIL	6 13 36	6 9 19		APRIL	3 4 46	3 5 5 7 3 <b>1</b> 7 6
	MAY .	6 2 20	5 18 9		MAY.	2 17 30	3 1 48
	June.	4 15 4	4 4 31		1	1 6 14	1 9 10
	July.	4 3 48	3 17 7		June .		0 15 48
	Aug	2 16 32	2 8 10				5 13 10
	SEPT.	1 5 16	1 1 13				9 23 19
	~ jì	130 18 0	30 19 18			1	8 8 29
	Octr.	30 6 44	30 13 12	1			6 20 4
	Nov.	28 19 28	29 5 42		Oct		6 10 26
	Dec.	28 8 12	28 20 1		Nov.		5 3 20
					Dec		

	,	Menn New	True New	Mean		Mean New	True New
Mean Vernal	Month.	Moon.  Full Ecl.)	Moon.	Vernal Equinox.	Month.	Moon.	Moon.
Equinox.			7 I dil 1201.)	Equinoz.			
B.C. 1070.		d. h. m.	d. h. m.	B.C. 1067.		d. h. m.	d. h. m.
C.	JAN	23 12 6	23 16 44	F. March.	JAN	20 3 16	19 22 42
d, $h$ , $m$ .	FEB	22 0 51	22 10 24	d. h. m.	FEB	18 16 0	18 10 28
81 22 44	MAR	23 13 35	24 1 44	31 16 11	MAR	20 4 45	19 23 5
	APRIL	22 2 19	22 14 18		APRIL	18 17 29	18 12 48
	MAY .	21 15 3	22 0 19		0	<b>€</b> 3 11 51	3 17 46
Ì	JUNE .	20 3 47	20 8 37		MAY .	U18 6 13	18 3 34
	JULY .	19 16 31	19 16 13		June.	16 18 57	16 18 59
	Aug	<b>1</b> 8 5 15	18 0 12		July.	16 7 41	16 10 22
1	SEPT	16 17 59	16 9 21		Aug.	14 20 25	15 1 11 13 15 3
	Oct	16 6 43	15 20 15		SEPT	13 9 9	13 15 3 13 3 56
	Nov	<sub>{14 19 27</sub>	14 9 13		Oct	12 21 53	11 15 59
	0	129 13 49	30 0 1		Nov.	11 10 37 10 23 21	11 3 11
	DEC	14 8 11	14 0 <b>1</b> 4		DEC	10 25 21	11 0 11
1069.	JAN	12 20 55	12 16 50	1066.	JAN	9 12 5	9 13 41
B.A.	FEB	11 9 39	11 10 17	E.	FEB.	8 0 49	7 23 33
31 4 33	MAR	11 22 23	12 3 30	31 22 0	MAR.	9 13 33	9 9 16
	APRIL	10 11 7	10 19 27	01 22 0	0	124 7 55	24 21 9
	MAY .	f 9 23 51	10 9 26		APRIL	8 2 17	7 19 27
	0	<b>\</b> 24 18 13	24 9 4		MAY .	7 15 1	7 6 51
	June .	8 12 35	8 21 17		June .	6 3 45	5 20 1
	JULY.	8 1 19	8 7 23		JULY.	5 16 29	5 10 57
	Aug	6 14 3	6 16 32		Aug	4 5 13	4 3 13
	SEPT	5 2 47	5 1 37		SEPT	$\int 2 17 57$	2 20 0
	Ocr	4 15 31	4 11 16	<b>\</b>	0	17 12 19	0.10.00
	Nov	$\begin{cases} 3 & 4 & 15 \\ & & 3 & 3 \end{cases}$	2 21 56		Oct.	$\int_{0}^{2} 641$	l
	0	17 22 37	18 5 45		0027	131 19 25	1) = = ==
	DEC	2 16 59	$ \begin{cases} 2 & 9 & 45 \\ 31 & 22 & 45 \end{cases} $	1	Nov.		1
	T	1 5 43			DEC.	29 20 53	50 0 20
1068. G.	JAN	130 18 27	30 12 57		T	28 9 37	28 15 45
G.	FEB		•••	1065.	JAN. FEB.	06 00 01	1
31 10 25	2 Mar.	$\int 1 7 12$	1	D.0.		(12 16 4	
01 10 2	LILAN.	1 30 19 56		0.40	MAR.	1 07 11 6	0 50
	APRIL	29 8 40		11	APRIL	05 92 50	
	0	∫14 3 S		11	MAY	0 = 10 9/	25 2 36
	MAY			II	JUNE	. 24 1 18	1 0 477
	June		1	11	JULY	. 23 14 2	م مماد
	July	07 44 0/		11	Aug.	. 22 2 46	
	Aug.	1 0 0 0		li .	0	5 21 8	1
	SEPT.		20 10 10	- 11	SEPT.	1	
	Ocr.	.			Ocr.	. 20 4 14	1
	0	$\left\{ egin{array}{cccccccccccccccccccccccccccccccccccc$		H	Nov.	40	1 04
	Nov.	01 14 8		11	DEC.	. 18 5 4	
	DEC.	. 21 14 5	-				

Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.		(O Full Ecl.)	(O Full Ect.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
B.C.		d. h. m.	d. h. m.	B.C. 1061.		d. h. m.	d. h. m.
1064. в.	JAN	16 18 26	17 6 30	F.E. March.	JAN	<b>14</b> 9 <b>3</b> 6	14 11 13
	FEB	15 7 10	15 17 8	d. h. m.	FEB	12 22 20	13 5 28
March. $d. h. m.$	0	[ 2 1 32	2 1 4	31 3 4	MAR	13 11 4	13 21 56
31 9 37	MAR	16 19 54	17 1 46		APRIL	11 23 48	12 11 51
	APRIL	15 8 38	<b>1</b> 5 9 9		MAY.	11 12 32	11 23 7
	MAY .	14 21 22	14 16 14		JUNE .	(10 1 16	10 8 14
	JUNE .	13 10 6	13 0 6		0	24 19 38	24 9 50
	JULY .	12 22 50	12 9 52		JULY .	9 14 0	9 16 18
	A.ug	(11 11 34	10 22 20		Aug	8 2 44	8 0 4
	0	26 5 56	26 9 0		SEPT	6 15 28	6 8 44
	SEPT.	10 0 18	9 13 50		Oct	6 4 12	5 18 50
	Oct	9 13 2	9 7 51		Nov.	4 16 56	4 6 48
	Nov.	8 1 46	8 3 11		DEC.	(4 5 40	3 20 48
	DEC	7 14 30	7 22 14		0	19 0 2	19 11 7
					_	(20 0 2	10 11
1063.	JAN	6 3 14	6 15 25				
Δ.	FEB	4 15 58	5 5 49	1060.	JAN	2 18 24	2 12 24
31 15 26	MAR	6 4 43	6 17 16	D.	FEB	1 7 8	1 5 17
	APRIL	4 17 27	5 2 8	31 8 53	MAR	2 19 53	2 22 31
	MAY .	4 6 11	4 9 22		APRIL	(1 8 37	1 15 8
	JUNE .	2 18 55	2 16 0		AFRIL	(30 21 21	(168
	JULY.	(2 7 39	1 23 7		MAY .	30 10 5	[{30 19 8
	JULY .	131 20 23	31 7 51		0	(14 4 27	18 17 19
	AUG	30 9 7	29 19 6		JUNE.	128 2 <b>2 4</b> 9	29 6 6
	SEPT	28 21 51	28 9 23		JULY .	28 11 33	28 15 51
1	Ocr	28 10 35	28 2 33		Aug	27 0 17	27 1 6
1	Nov	26 23 19	26 21 39		SEPT	25 13 1	25 10 37
	DEC	26 12 3	26 17 8		Oct	25 1 45	24 20 58
					Nov	23 14 29	28 8 7
1062.	0	(10 6 25	10 5 20		DEC	23 3 13	22 20 25
G.	JAN	25 0 47	25 11 20				
	FEB	23 13 31	24 3 0		_	04 42 2-	
31 21 15	MAR	25 2 16	25 15 36	1059.	JAN	21 15 57	21 9 46
1	APRIL	23 15 0	24 1 23	С.	FEB	20 4 41	20 0 11
•	MAY .	23 3 44	23 9 12	31 14 41	MAR	21 17 26	21 15 29
	JUNE .	21 16 28	21 16 7		APRIL	20 6 10	20 7 11
	_ 0	6 10 50	6 8 32		MAY.	19 18 54	19 22 39
	JULY.	21 5 12	20 23 17		JUNE.	18 7 38	18 18 18
	Aug	19 17 56	19 7 38		July .	17 20 22	18 2 32
}	SEPT	18 6 40	17 18 4		Aug	16 9 6	16 14 37
	Ост.	17 19 24	17 7 4		Sept	14 21 50	15 1 51
	Nov	16 8 8	15 22 45		Oct.	14 10 34	14 12 44
	DEC.	∫15 20 52	15 16 30		Nov.	12 23 18	12 23 32
	0	30 15 14	30 21 18		DEC	12 12 2	12 10 23
	<u> </u>						

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Mean Vernal Equisor.	Month.	Mean New   Moon. (() Full Ecl.)(/	True New Moon. Full Eol.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 1058. s. March. d. h. m. 81 20 80	Jan Fru Mar April.	d, h, m,  11 0 46 9 18 30 11 2 14 5 9 14 58 24 9 20	d. h. m. 10 21 21 9 8 88 10 20 28 9 9 15 24 17 46	B.C. 1055. E. March. d. h. m. 81 18 57	Jan Feb O Mar April	d. h. m. 7 15 56 6 4 40 20 28 2 7 17 21 6 6 8	d. h. m. 8 4 30 6 16 15 20 20 30 8 1 40 6 9 25
•	MAY . JUNE . JUNE . AUG SKPT Oct () Nov	9 8 42 7 16 26 7 5 10 5 17 54 4 6 88 ( 8 19 22 (18 18 44 2 8 6 ( 1 20 50	8 28 20 7 14 27 7 6 2 5 21 24 4 12 4 4 1 45 18 1 52 2 14 24 2 2 7		MAY. JUNE. JULY.  AUG. O  SEPT OCT Nov	5 18 52 4 7 86 8 20 20 2 9 4 17 8 26 81 21 48 80 10 82 29 28 16 28 12 0	5 16 23 8 28 40 8 8 20 1 19 24 17 7 55 81 9 27 80 2 26 29 21 24 28 16 58
1057. A.G. 31 2 19	Јан <b>F</b> ки <b>Ман.</b> .	29 22 18 28 11 2 28 28 47 12 18 9	29 22 54 28 8 24 28 17 59 18 6 89	1054. D. 81 19 46	JAN  O FEB MAR APRIL	28 0 44 26 18 28 10 7 50 25 2 12 26 14 57 25 8 41	28 11 9 27 8 0 10 2 10 25 15 49 27 1 48 25 9 40
	APRIL MAY . JUNK . JULY . AUG SEPT	27 12 81 27 1 15 25 18 59 25 2 48 23 15 27 22 4 11 ( 6 22 88	27 4 28 26 16 88 25 6 84 24 22 21 28 15 11 22 8 9 6 11 17		MAY . JUNE . JULY . O AUG SEPT OCT	24 16 25 28 5 9 22 17 58 6 12 15 21 6 87 19 19 21 19 8 5	
1056.	Oct Nov DEC	(21 16 55 20 5 89 19 18 28 18 7 7	22 0 21 20 15 4 20 4 1 18 15 5	1053. с.в.	Nov DEC JAN  O FEB	17 20 49 17 9 88 (15 22 17 80 16 89 14 11 1	17 15 58 17 11 25 16 6 21 80 14 45 14 28 18
81 8 8	FRH MAR APRIL MAY . JUNE . JULY . AUG	1	17 0 82 18 8 52 16 16 48 16 1 19 14 11 28 14 0 1 12 15 11	81 184	MAR APRIL MAY. JUNE. JULY. O AUG.	25 21 8	25 19 56
	SEPT OCT Nov DEC	11 18 0 11 1 44 9 14 28	11 8 88 11 8 5 9 21 21 9 14 7		SEPT OCT Nov DEC	8 4 9 7 16 58 6 5 87	7 14 39 7 4 25 5 18 47

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
Vernal	Month.  JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT JAN FEB MAR APRIL MAY .  JUNE . JULY . AUG SEPT OCT	Moon. (O Full Ecl.)  d. h. m. 4 7 5 2 19 49 4 8 34 2 21 18 { 2 10 2 31 22 46 30 11 30 30 0 14 28 12 58 27 1 42 26 14 26 25 3 10 { 9 21 32 24 15 54 23 4 38 21 17 22 23 6 7 21 18 51 21 7 35 { 5 1 57 19 20 19 19 9 3 17 21 47	Moon.	Vernal	Month.  JAN  FEB  MAR  APRIL  O  MAY .  JUNE .  JULY .  AUG  SEPT  O  APRIL  MAY .  JUNE .  JUNE .  O  APRIL  MAY .  JUNE .  SEPT	Moon.	Moon. (○ Full Ecl.)  d. h. m.  1 20 15  31 7 4  29 18 14  30 6 15  28 19 30  14 1 10  28 10 2  27 1 30  26 17 14  25 8 35  23 23 4  28 12 31  22 0 50  21.12 5  19 22 19  18 7 47  19 16 59  4 4 19  18 2 40  17 18 41  16 2 39  15 17 38  14 10 18  13 3 29  27 9 52
1050. F. 31 19 1	Nov. O DEC. JAN. FEB.	11 2 11 12 14 55 11 3 89 10 16 28 25 10 45 9 5 7 8 17 51 7 6 35	14 6 50 29 13 54 13 18 31 12 7 8 10 20 45 12 11 19 11 2 39 10 18 3 25 7 53 9 9 20 8 28 28 7 12 24 6 0 19 5 11 34 3 22 34 18 13 30	1047. B. 31 12 28	OCT Nov DEC JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT Nov DEC	1	17 1 37 1 21 34 31 16 21 30 10 7

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 1046.	Jan	d. h. m.	d. h. m. 28 14 50	B.C. 1043.		d. h. m.	d. h. m.
	FEB	26 14 58	27 1 18	D.	JAN.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	24 18 48
March. d. h. m.	Q	(18 9 15	13 8 6	March.	FEB.	23 6 3	23 12 41
81 18 16	MAR	128 8 88	28 9 34	d. h. m. 31 11 43	MAR.	24 18 48	25 4 57
	APRIL	26 16 22	26 16 42	01 11 10	APRIL	23 7 32	23 18 47
	MAY .	26 5 6	25 23 36		MAY.	22 20 16	23 6 9
	JUNE .	24 17 50	24 7 24		June .	21 9 0	21 15 32
	July.	24 6 84	28 17 12		0	6 6 3 22	5 16 37
į l	Aug	22 19 18	22 5 47		JULY.	20 21 44	20 23 52
}	0	6 18 40	6 17 9		Aug	19 10 28	19 8 8
	SEPT	121 8 2	20 21 28		SEPT	17 23 12	17 17 9
	Oct	20 20 46	20 15 41		Ост	17 11 56	17 3 31
	Nov	19 9 80	19 11 11		Nov	16 0 40	15 15 32
	DEC	18 22 14	19 6 17		DEC	j 15 13 24	15 5 13
					0	30 7 46	30 19 40
1045.	JAN	17 10 58	17 28 27				
G.F.	FEB	15 28 42	16 13 48	1042.	JAN	14 2 8	13 20 27
81 0 5	MAR	16 12 27	17 0 59	c.	FEB	12 14 52	12 12 46
	APRIL	15 1 11	15 9 42	81 17 82	MAR	14 3 37	14 5 31
	MAY .	14 18 55	14 16 49		APRIL	12 16 21	12 21 45
	June.	18 2 89	12 28 27		MAY .	12 5 5	12 12 41
	July.	12 15 28	12 6 42		JUNE.	∫10 17 <b>4</b> 9	11 1 53
	Aug	11 4 7	10 15 86		0	\25 12 11	25 0 31
	SEPT	9 16 51	9 8 1		July.	10 6 33	10 13 21
	Oct	9 5 85	8 17 26		Aug	8 19 17	8 23 36
	Nov	7 18 19	7 10 87		SEPT	7 8 1	7 9 21
	DEC	7 7 8	7 5 88		Oct	6 20 45	6 19 17
					Nov	5 9 29	5 5 47
1044.	JAN	∫ 5 19 47	6 0 56		Dec	4 22 13	4 17 0
E.	0	(20 14 9	20 18 57				
	FEB	4 8 81	4 18 57	1041.	JAN	3 10 57	3 4 59
C1 5 54	MAR	5 21 15	6 10 25	B.A.	FEB	1 23 41	1 17 49
	APRIL	4 9 59	4 22 55	80 28 21	MAR	2 12 25	$\left\{ egin{array}{cccc} 2 & 7 & 37 \\ 31 & 22 & 21 \end{array} \right\}$
	MAY .	8 22 48	4 8 40		APRIL	1 1 9	`
	June .	2 11 27	2 16 84		3/5	130 13 53	30 13 42
	T	(2 0 11	1 28 40		MAY .	30 2 37 28 15 21	30 5 6 28 19 54
	Jura O	1.7	16 15 11 81 7 5		JUNE . JULY .	28 4 5	28 19 54
	Δ *** ~	80 1 89	81 7 5 29 15 45		Aug.	26 16 49	26 22 22
	Aug Sept	28 14 28	28 2 28		SEPT	25 5 33	25 10 12
	Oct	28 8 7	27 15 30		Ocr	24 18 17	24 21 30
	Nov.	26 15 51	26 7 2		Nov.	23 7 1	23 8 30
	Dac.	26 4 85	26 0 80		DEC.	22 19 45	22 19 17
	A						

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 1040.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
G.	JAN	21 8 29	21 5 53	1037.	JAN	18 23 39	19 12 48
$\begin{array}{c c} \text{March.} \\ d. \ h. \ m. \end{array}$	FEB	19 21 13	19 16 33	D.C.	Feb	17 12 23	18 0 24
31 5 9	MAR	21 9 58	21 3 48	March. $d. h. m.$	0	(3 6 45	3 3 44
1	April	19 22 42	19 16 9	30 22 35	Mar	18 1 8	18 9 33
	0	(4174	5 1 10		APRIL	16 13 52	16 17 3
	MAY.	19 11 26	19 5 52		MAY.	16 2 36	15 23 50
	JUNE .	18 0 10	17 20 56		JUNE.	14 15 20	14 7 0
	JULY.	17.12 54	17 12 44		JULY.	14 4 4	13 15 41
	Aug	16 1 38	16 4 37		Aug	(12 16 48	12 2 52
	SEPT	14 14 22	14 19 53		0	27 11 10	27 15 50
	Ocr	(14 3 6	14 10 8		SEPT	11 5 32	10 17 5
	0	28 21 28	28 10 9		Oct	10 18 16	10 10 13
	Nov	12 15 50	12 23 12		Nov	9 7 0	9 5 20
}	DEC	12 4 34	12 11 2		DEC	8 19 44	9 0 52
	_			1036.	JAN	7 3 28	7 19 10
1039.	JAN	10 17 18	10 21 41	В.	FEB	5 21 12	6 10 58
F.	FEB	9 6 2	9 7 18		0	20 15 34	20 10 1
31 10 58	MAR.	10 18 46	10 16 18	31 4 24	MAR.	7 9 56	7 23 33
	APRIL	9 7 30	9 1 23		APRIL	5 22 40	,6 9 2 <b>1</b>
	M	24 1 52	24 13 44		MAY.	5 11 24	5 17 6
,	MAY .	0 -0 -1	8 11 26		JUNE .	4 0 8	3 23 51
	JULY .		6 23 16		JULY .	3 12 52	3 6 42
1	Aug.		6 13 14			2 1 36	1 14 45
ĺ	SEPT.	0 10 20	5 5 13 3 22 29		Aug. O	16 19 58	17 0,44
	Oct.	3 11 54				31 14 20	31. 0 55
-	0	18 6 16	3 15 59 17 19 51		SEPT.	30 3 4	29 13 53
	Nov.	1 (	2 8 39		Oct.	29 15 48	29 5 47
-	1_	( 1 13 22	1 23 42		Nov.	28 4 32	27 28 59
	DEC.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	31 12 41		DEC	27 17 16	27 19 15
		(	02 22 22	1035.	JAN	26 6 0	26 13 59
1038.	JAN.	. 29 14 50	29 23 34	A.	0	(10 0 22	9 23 4
E.	FEB.				FEB	124 18 44	25 6 44
31 16 47			28 8 42 29 16 37	31 10 13	MAR	26 7 29	26 20 40
	APRII		28 0 12		A.PRIL	24 20 13	25 7 42
	MAY	4	27 8 28		MAY .	24 8 57	24 16 27
	JUNE		25 18 28		June .	22 21 41	22 23 54
	JULY		25 7 1		JULY .	22 10 25	22 7 10
	Aug.	1	23 22 22		0	6 4 47	
	SEPT.			1	Aug	20 23 9	
	Oct.	. 22 9 27	22 10 55		SEPT	19 11 53	1
	Nov.				Ост	19 0 37	18 12 52
	DEC.	. 20 10 55			Nov.	17 13 21	1
			1		DEC	17 2 5	16 19 39

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 1034.		d. h. m.	d. h. m.	B.C. 1031.		d. h. m.	d. h. m.
March.	JAN	15 <b>14 4</b> 9	15 13 29	C.	JAN	12 5 59	12 4 55
d. h. m.	FEB	14 3 33	14 7 32	March. $d. h. m.$	FEB	10 18 43	10 15 16
<b>31</b> 16 2	MAR	15 16 18	16 0 35	31 9 29	MAR	12 7 28	12 1 53
	APRIL	14 5 2	14 15 37		APRIL	10 20 12	10 13 21
	MAY.	13 17 46	14 4 13		MAY .	(10 8 56	10 2 10
	JUNE .	12 6 80	12 14 37		0	(25 3 18	25 8 33
	JULY.	11 19 14	11 23 32		June .	8 21 40	8 16 31
	A.ug	10 7 58	10 7 55		JULY .	8 10 24	8 8 5
	SEPT.	8 20 42	8 16 41		Aug.	6 23 8	7 0 14
	Ост	8 9 26	8 2 29		SEPT.	5 11 52	5 16 9
	Nov.	6 22 10	6 13 43		Oct	5 0 36	5 7 15
	DEC.		6 2 29		1		
	l	1)	21 17 6		Nov		
	0	21 5 16	21 17 6		DEC	3 2 4	3 9 43
1033.	JAN	4 23 38	4 16 47			(11448	1 20 55
F.E.	FEB.	3 12 22	3 8 21	1030.	JAN	31 3 32	31 6 50
30 21 51	MAR.	4 1 6	4 0 42	в.	FEB	(02 0 02	01 0 00
30 21 31		2 13 50	2 17 5		reb	( 1 16 16	1 15 52
	APRIL	( 2 2 34	2 8 41	31 15 <b>1</b> 7	MAR	31 5 0	31 0 35
	MAY .	$\begin{cases} 2 & 2 & 34 \\ 81 & 15 & 18 \end{cases}$	31 22 51		A	29 17 44	29 9 49
	_		14 23 30	,	APRIL	29 6 28	28 20 31
	0	$\begin{cases} 15 & 9 & 40 \\ 30 & 4 & 2 \end{cases}$	30 11 18		MAY .	27 19 12	27 9 20
	JUNE .	29 16 46	29 22 20		JUNE .	27 7 56	27 0 27
	July .				JULY.	25 20 40	25 17 20
	A.UG	28 5 30	28 8 31		Aug		
	SEPT	26 18 14	26 18 32		SEPT	24 9 24	24 11 5 8 18 26
	Ост.	26 6 58	26 4 53		0	)	1
	Nov	24 19 42	24 15 46		Oct	23 22 8	1
	_ 0	9 14 4			Nov.	22 10 52	22 20 40
	DEC	(24 8 23	24 3 15		DEC	21 23 36	22 10 46
1032.	JAN	22 21 10	22 15 24	1029.	JAN	20 12 10	20 22 39
D.	FEB	21 9 54	21 4 24	A.G.	FEB	19 1 4	19 8 26
81 8 40	MAR	22 22 39	22 18 24	30 21 26	MAR	19 13 49	19 16 42
	APRIL	21 11 23	21 9 16		0	3 8 11	3 14 39
	MAY .	21 0 7	21 0 39	1	APRIL	118 2 33	18 0 10
1	0	( 4 18 29	4 15 21		May .	17 15 17	17 9 49
	JUNE .	19 12 51			JUNE .	16 4 1	15 16 .45
	JULY.	19 1 35	19 6 25		JULY .	15 16 45	15 3 57
	Atrg	17 14 19	17 19 56		Aug	14 5 29	13 17 58
	SEPT	16 3 3	16 8 27		SEPT	12 18 18	12 10 42
	Oct.	15 15 47	15 20 13		0	27 12 35	27 10 10
	Nov.	(14 4 31	14 7 31		OCT	12 6 57	12 5 18
1	0	28 22 58	1		Nov.	10 19 41	11 0 23
	DEC	13 17 15	13 18 23		DEC	10 8 25	10 18 23
		10 1. 10					
L	1	1	1	11			

	1 1		· 11				
Mean		Mean New	True New	Mean	3641.	Mean New	True New
Vernal Equinox.	Month.	Moon. (O Full Ecl.)	Moon.	Vernal Equinox.	Month.	Moon. (O Full Ecl.)	Moon.
Equinox.		(() F arr 2023)	(0 1 011 2011)				
B.C.		7 7				d. h. m.	<i>a</i> 1
1028.		d. h. m.	d. h. m.	B.C.		a. n. m.	d. h. m.
F.	JAN	8 21 9	9 10 6	1025.	JAN	f 6 12 19	6 8 25
March.	FEB	7 9 53	7 23 0	С.В.	0	<sup>1</sup> 21 6 41	21 14 40
d. h. m. 31 2 55	MAR.	(8 22 38	9 9 11	d. h. m.	FEB	5 1 3	5 2 18
02 2 00	0	23 17 0	23 15 4	30 20 22	MAR	5 13 47	5 19 45
•	APRIL	7 11 22	7 17 17	•	APRIL	4 2 31	4 11 48
	MAY.	7 0 6	7 0 12		MAY .	3 15 15	4 1 37
	June .	5 12 50	5 7 1		JUNE.	2 3 59	2 13 9
	JULY.	5 1 34	4 14 49			c 1 16 43	1 22 52
	Aug	3 14 18	3 0 40		JULYO	16 11 5	15 28 31
	SEPT.	(2 3 2	1 13 15		JULY	31 5 27	31 7 36
1		1	· · · · · ·		A	1	
	0	116 21 24	17 1 25		Aug.	29 18 11	29 16 18
	Ост	1 15 46	1 5 14		SEPT	28 6 55	28 1 43
	37	(31 4 30	30 23 34		Ост.	27 19 39	27 12 19
	Nov	29 17 14	29 19 9		Nov.	26 8 23	26 0 16
	· DEC	29 5 58	29 14 15		DEC	25 21 7	25 13 39
1027.	JAN	27 18 42	28 7 19	1024.	0	( 9 15 29	10 4 6
E.	FEB	26 7 26	26 21 28	A.	JAN	124 9 51	24 4 22
31 8 44	MAR	27 20 10	28 8 32		FEB	22 22 35	22 20 7
	APRIL	26 8 54	26 17 9	31 2 10	MAR.	24 11 20	24 12 22
	MAY .	25 21 38	26 0 15		APRIL	23 0 4	23 4 19
	JUNE .	24 10 22	24 6 58		MAY .	22 12 48	22 19 16
	JULY .	23 23 6	23 14 21		June .	21 1 32	21 8 42
	Aug	22 11 50	21 23 28		0	( 5 19 54	5 7 45
	SEPT	21 0 34	20 11 5		JULY.	20 14 16	20 20 38
	Oct	20 13 18	20 1 35		Aug	19 3 0	19 7 25
	Nov	19 2 2	18 18 44	,	SEPT.	17 15 44	17 17 38
	DEC.	18 14 46	18 13 33		Oct.	17 4 28	17 4 8
	DEG.	10 11 10	10 10 00				1
1000	-	/47 0 00			Nov.	15 17 12	15 14 44
1026.	JAN.	11-	17 8 36		DEC	15 5 56	15 1 51
	-0	31 21 52	31 22 25				
04 44 00	FEB	15 16 14	16 2 23	1023.	JAN	13 18 40	13 13 28
31 14 83	MAR.	17 4 59	17 17 42	G.	FEB	12 7 24	12 1 44
	APRIL	15 17 43	16 6 7	81 7 59	MAR	13 20 9	18 14 56
	MAY.		15 15 55		APRIL	12 8 53	12 5 8
	JUNE.	1	13 23 57		MAY .	11 21 37	11 20 11
	JULY.	11		1	JUNE .	10 10 21	10 11 34
1	0	28 2 17	27 21 56		JULY.	9 23 5	10 2 39
	Aug	0	11 15 2		Aug	8 11 49	8 16 58
	SEPT		10 0 1		SEPT	7 0 33	7 6 15
	Ост		9 10 53		Oct.	6 13 17	6 18 40
	Nov.	8 10 51	8 0 1		Nov.	5 2 1	5 6 22
	DEC.	7 23 35	7 15 22		DEC.	4 14 45	4 17 29
	1	1				1 12 10	
			·	11	1	I	1

			ERUSALEM (	OIVIL LIME	•		
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernul Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 1022.		d. h. m.	d. h. m.	B.C. 1019.		d. h. m.	d. h. m.
F.	Jan	3 3 29	3 4 6	B.	JAN	29 7 23	29 21 0
d. h. m.	FEB	<b>1</b> 16 13	1 14 17	d. h. m.	FEB	27 20 7	28 8 23
31 13 48	MAR	3 4 57	3 0 26	<b>31</b> 7 15	Mar	29 8 51	29 17 18
	Arrit	1 17 41	f 1 11 6		APRIL	27 21 35	28 0 35
		1 6 25	130 22 58		Maż.	27 10 19	27 7 15
	MAYO	316 0 47	16 8 30		JUNE.	25 23 3	25 14 24
1		(30 19 9	30 12 <b>2</b> 5		JULY.	25 11 47	24 23 10
	JUNE.	29 7 53	29 3 27		Aug	24 0 31	23 10 28
	JULY.	28 20 37	28 19 <b>3</b> 3		0	7 18 53	7 23 52
	Aug	27 9 21	27 11 54		SEPT	$(22\ 13\ 15$	22 0 50
,	SEPT	25 22 5	26 <b>3 4</b> 6		0ст	22 1 59	21 18 6
	Ocr	25 10 49	25 18 34		Nov	20 14 43	20 13 17
	_ 0	9 5 11	8 18 30		DEC	20 3 27	20 8 49
	Nov	(23 23 33	24 7 58		_	404044	10 0 1
	DEC	23 12 17	23 19 58	1018.	JAN	18 16 11	19 3 1
1001	<b></b>	00 1 1	00 0 10	Δ.	FEB	17 4 55	17 18 36
1021. E.D.	JAN	22 1 1	22 6 18	07 10 0	0	3 23 17	3 17 44
	FEB	20 13 45	20 15 32	81 13 8	MAR.	18 17 40	19 7 7
30 19 37	MAR.	19 15 14	21 0 6 19 8 45		APRIL	17 6 24 16 1.9 8	17 16 50
	APRIL	(4 9 36	4 20 44		MAY . June .	16 1.9 8 15 7 52	17 0 32 15 7 21
	MAY.	19 3 58	18 18 26		JULY.	14 20 36	14 14 20
	JUNE .	17 16 42	17 6 2	,	Aug.	(13 9 20	12 22 36
	JULY.	17 5 26	16 20 3		0	28 3 42	28 8 12
	Aug.	15 18 10	15 12 14		SEPT.	11 22 4	11 9 0
	SEPT.	14 6 54	14 5 54		Ост.	11 10 48	10 22 6
	Ocr	(13 19 38	13 23 53		Nov.	9 23 32	9 13 58
	0	28 14 0	23 4 35		DEC	9 12 16	982
	Nov.	12 8 22	12 16 59				1
	DEC	11 21 6	12 8 16	1017.	JAN	8 1 0	8 3 2
				G.F.	FEB	6 13 44	6 21 28
1020.	JAN	10 9 50	10 21 14		0	121 8 6	21 7 16
C.	FEB	8 22 34	9 7 55	30 18 52	MAR	7 2 29	7 14 1
31 1 26	Mar	10 1 <b>1</b> 19	10 16 44		APRIL	5 15 13	6 3 49
	APRIL	9 0 3	9 0 19		MAY .	5 3 57	5 14 51
	MAY.	8 12 47	8 7 36		June .	3 16 41	3 23 44
1	June.	7 1 31	6 15 40		JULY.	3 5 25	3 7 25
	JULY.	6 14 15	6 1 35			(1 18 9	1 15 0
	Aug	5 2 59	4 14 11		Avg. O	316 12 31	16 9 51
	SEPT	3 15 43	3 5 43			31 6 53	30 23 26
	Ocr	3 4 27	2 23 40		SEPT	29 19 37	29 9 26
	Nov	1 17 11	1 18 50		Ост.	29 8 21	28 21 28
	DEC	§ 1 5 55	1 13 40		Nov.	27 21 5	27 11 40
		(30 18 39	81 6 42		DEC	27 9 49	27 3 48
1	l	}	l	11	1	I	1

Mean Vernal	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
Equinox.							
B.C. 1016.	!	d. h. m.	d. h. m.	B.C. 1013.		d. h. m.	d. h. m.
E. Manah	Jan	25 22 33	25 21 8	B.A. March.	JAN	23 13 43	23 13 30
March. $d. h. m.$	FEB	24 11 17	24 14 44	d. h. m.	Feb	22 2 27	21 23 23
31 0 41	MAR	26 0 1	26 7 26	30 18 8	MAR	22 15 11	22 9 25
	$\mathbf{A}_{\mathtt{PRIL}}$	24 12 45	24 22 23		APRIL	21 3 55	20 20 22
`	MAY .	24 1 29	24 11 6		MAY.	20 16 39	20 8 49
	JUNE.	22 14 13	22 21 47		0	4 11 1	4 15 55
1	JULY.	22 2 57	22 7 5		June .	(19 5 23	18 23 4
	Aug	20 15 41	20 15 57		JULY.	18 18 7	18 14 46
	Sept	19 4 25	19 1 8		Aug	17 6 51	17 7 18
	Ocr	18 17 9	18 11 15		SEPT	15 19 85	15 23 48
	Nov	17 5 53	16 22 32		Ост	15 8 19	15 15 28
	Dec	∫16 18 37	16 11 6		Nov	13 21 3	14 5 47
	0	\31 12 59			DEC	13 9 47	13 18 30
1015.	JAN	ς	1 1 30	1012.	JAN	11 22 31	12 5 36
D.	JAN	<b>15</b> 7 21	15 0 57	G.	FEB	10 11 15	10 15 13
	FEB	13 20 5	18 15 55	30 23 56	MAR.	12 0 0	11 28 51
<b>81</b> 6 <b>8</b> 0	MAR	15 8 50	15 7 44	00 20 00	APRIL	10 12 44	10 8 6
	APRIL	13 21 34	13 23 43		MAY .	10 1 28	9 16 59
	MAY.	13 10 18	13 15 13		JUNE .	8 14 12	8 8 25
	JUNE.	11 23 2	12 5 32		JULY.	8 2 56	7 16 10
,	0	26 17 24	26 6 49		Aug	6 15 40	6 7 22
	JULY.	11 11 46	11 18 23		SEPT.	5 4 24	5 0 36
	Apg	10 0 30	10 5 56		Oct	(4178	4 18 48
1	SEPT.	8 13 14	8 16 41		0	19 11 80	19 8 9
	Oct	8 1 58	8 3 11		Nov	8 5 52	3 12 42
	Nov.	6 14 42	<b>6 13 4</b> 9		DEC	2 18 36	3 5 8
	DEC.	12					
	0	(20 21 48	21 6 3	1011	T	1 7 20	1 19 19
1014.	JAN.	4 16 10	4 11 55	101 1. F.	JAN	130 20 4	31 7 8
C.	FEB	1	2 23 35		FEB		
31 12 19	MAR.	4 17 39	4 12 0	31 5 45	MAR	∫ 1 8 48	1 16 34
	APRIL	3 6 23	<b>3 1</b> 23	91 9 49	MYW.	130 21 32	81 0 29
	MAY.	. 2 19 7	2 15 51		0	14 15 54	14 21 17
		1 7 51	175		APRIL	29 10 16	29 7 39
	JUNE	16 2 18	15 22 49		MAY .	28 23 0	28 15 5
		30 20 35	30 22 31		June .	27 11 44	26 23 55
	JULY	. 30 9 19	30 13 28	1	Juny.	27 0 28	26 11 7
	Aug.	. 28 22 3	29 3 35		Aug	25 13 12	25 1 16
	SEPT.	. 27 10 47	27 16 42	1	SEPT	24 1 56	23 18 13
	Ост.	. 26 23 31	. 27 4 57		0	8 20 18	
	Nov.	. 25 <b>1</b> 2 15	25 16 29		Ocr	23 14 40	23 13 6
	0	10 6 37	7 10 5 25		Nov	22 3 24	22 8 25
	DEC.	. 25 0 59	25 8 17		DEC	21 16 8	22 2 33
1		<u> </u>			1		1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 1010. E. March. d. h. m. 31 11 34	JAN FEB MAR O APRIL MAY . JULY . AUG SEPT O OCT Nov DEC	d. h. m.  20 4 52 18 17 36 20 6 21 { 4 0 43 18 19 5 18 7 49 16 20 33 16 9 17 14 22 1 { 13 10 45 28 5 7 12 23 29 11 12 13 11 0 57	d. h. m. 20 18 16 19 7 0 20 16 59 3 21 53 19 0 52 18 7 39 16 14 25 15 22 17 14 8 18 12 21 11 28 9 48 11 7 32 11 3 6	B.C. 1007. A. March. d. h. m. 31 5 0	JAN O FEB MAR APRIL MAY . JUNE . O AUG SEPT OOCT Nov	d. h. m. {16 20 2 31 14 24 15 8 46 16 21 31 15 10 15 14 22 59 13 11 48 {18 0 27. 27 18 49 11 13 11 10 1 55 9 14 39 8 3 23 7 16 7	d. h. m.  16 16 16  31 23 6  15 9 37  17 2 42  15 18 32  15 8 23  13 20 10  13 6 16  27 6 34  11 15 28  10 0 39  9 10 25  7 21 1  7 9 3
1009. D.C. 80 17 28	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	9 13 41 8 2 25 8 15 10 7 3 54 6 16 38 5 5 22 4 18 6 3 6 50 1 19 34 { 1 8 18 30 21 2 29 9 46 28 22 30	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1006. c. 31 10 49	JAN O FEB MAR APRIL MAY . JUNE .  JULY O AUG SEPT OOT Nov	6 4 51 20 23 13 4 17 35 6 6 20 4 19 4 4 7 48 2 20 32 (2 9 16 17 3 38 31 22 0 30 10 44 28 23 23 28 12 12 27 0 56	5 22 4 21 12 26 4 12 13 6 3 22 4 19 6 4 10 49 3 1 50 2 15 35 16 15 8 { 1 4 1 30 15 22 29 2 12 28 12 55 26 23 42
1008. B 80 23 12	JAN  O FEB  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  SEPT  OCT  Nov  DEC	27 11 14 {11     5 86 25 23 58 27 12 42 26     1 26 25 14 10 24     2 54 23 15 88 22     4 22 20 17 6 20     5 50 18 18 84 18 7 18	27 16 11 11 6 48 26 9 40 28 0 48 26 13 10 25 23 6 24 7 21 28 15 1 21 23 7 20 8 25 19 19 30 18 8 35 17 23 40	1005. F.E. 30 16 38	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	26 13 40 25 2 24 23 15 8 24 3 52 22 16 36 22 5 20 20 18 4 20 6 48 18 19 32 17 8 16 16 21 0 15 9 44 14 22 28	

						1	
Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon,
Equinox.	month.	(O Full Ecl.)	(O Fall Ecl.)	Equinox.	21011111	(O Full Ecl.)	(O Full Ecl.)
B.C. 1004.		d. h. m.	d. h. m.	B.C. 1001.		d. h. m.	d. h. m.
March.	JAN	13 11 12	13 12 47	A.G. March.	JAN	11 2 23	11 14 50
d. h. m.	FEB	11 23 56	11 22 34	d. h. m.	FEB	9 15 7	10 5 1
30 22 27	MAR	13 12 41	13 8 13	30 15 53	MAR	10 3 51	10 16 13
	APRIL	12 1 25	11 18 22	Ì	APRIL	8 16 35	9 0 56
	MAY .	(11 14 9	11 5 47		MAY .	8 5 19	8 8 3
	0	126 8 31	26 15 49		JUNE .	6 18 3	6 14 41
	June .	10 2 53	9 19 2		JULY .	6 6 47	5 21 55
1	JULY .	9 15 37	9 10 5		Aug	4 19 31	4 6 48
1	Aug	8 4 21	8 2 28		SEPT	(3 8 15	2 18 17
	SEPT	6 17 5	6 19 20		0	18 2 37	18 8 2
	Oct	6 5 49	6 11 46		Ocr	2 20 59	2 8 46
	Nov	(4 18 33	5 3 5			(1 9 43	1 2 6
	0	19 12 55	19 2 55		Nov.	30 22 27	30 21 16
	Dec	4 7 17	4 16 44		DEC	30 11 11	30 16 42
					220	00 == ==	00 20 22
1003.	JAN	2 20 1	3 4 38	1000.	JAN	28 23 56	29 10 44
c.	FEB	1 8 45	1 14 49	F.	FEB	27 12 40	28 2 11
31 4 16	Mar	2 21 30	2 23 41		0	(14 7 2	14 1 28
		( 1 10 14	1 7 48	30 21 42	MAR.	29 1 24	29 14 33
	APRIL	130 22 58	30 <b>1</b> 6 4	00 == ==	APRIL	27 14 8	28 0 11
	0	(15 17 20	16 3 46		MAY .	27 2 52	27 7 55
	MAY .	30 11 42	30 1 27		June .	25 15 36	25 14 51
	JUNE .	29 0 26	28 12 55		JULY .	25 4 20	24 22 5
	July.	28 13 10	28 2 56		Aug.	23 17 4	23 6 87
	Aug	27 1 54	26 19 23		0	(7 11 26	7 15 47
	SEPT	25 14 38	25 13 27		SEPT	22 5 48	21 17 15
	Oct	25 3 22	25 7 52		Ocr.	21 18 32	21 6 27
'	0	( 8 21 44	8 13 22		Nov.	20 7 16	19 22 15
	Nov.	23 16 6	24 1 20		DEC.	19 20 0	19 16 4
	DEC	23 4 50	23 16 46			10 20 0	10 3.0 T
				999.	JAN	18 8 44	18 10 42
1002.	JAN	21 17 34	22 5 41	E.	FEB	16 21 28	17 4 48
В.	FEB	20 6 18	20 16 9		0	( 3 15 50	3 15 20
<b>31 1</b> 0 5	MAR	21 19 2	22 0 37	31 3 31	MAR.	18 10 12	18 21 6
	APRIL	20 7 46	20 7 53		APRIL	16 22 56	17 10 49
	0	∫ 5 2 8	5 8 12		MAY .	16 11 40	16 21 56
I	MAY .	19 20 30	19 14 56		June .	15 0 24	15 7 0
	JUNE .	18 9 14	17 22 53		JULY .	14 13 8	14 15 1
	JULY.	17 21 58	17 8 48		Aug.	(13 1 52	12 22 58
	Aug	16 10 42	15 21 30		0	27 20 14	27 17 0
	SEPT	14 23 26	14 13 13		SEPT.	11 14 36	11 7 46
	Oct	14 12 10	14 7 24		Ocr.	11 3 20	10 18 2
	Nov	13 0 54	13 2.49	<u> </u>	Nov.	9 16 4	9 6 7
	DEC	12 13 38	12 21 46		DEC.	9 4 48	8 20 8
	1	1			2	0 3 30	0 20 0

Mean Vernal Equinox	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 998.		d. h. m.	d. h. m.	B.C. 995.		d. h. m.	d. h. m.
ю.	JAN	7 17 82	7 11 50	G.	JAN	4 8 42	4 12 5
March.	FEB	6 6 16	6 4 40	March.	FEB	2 21 26	2 21 58
d. h. m. 81 9 20	MAR.	7 19 1	7 21 48	d. h. m. 31 2 46	MAR.	4 10 10	4 7 22
31 0 20	APRIL	6 7 45	6 14 12	02 2 20	APRIL	2 22 54	2 16 52
	MAY.	5 20 29	6 5 4		MAY .	2 11 38	(2 3 21
			4 17 58		MAX.	/ 1 0 22	31 15 30
	JUNE.		- 11		T	15 18 44	15 23 17
	JULY.	8 21 57			June O		30 5 39
	Aug	2 10 41	2 14 46		ų.	30 13 6	
	_	131 23 25	1 0 7		July.	30 1 50	29 21 33
	SEPT	80 12 9	30 9 45		Aug	28 14 34	28 14 31
	Ocr	80 0 58	29 20 6		SEPT	27 · 3 18	27 7 33
	Nov	28 18 87	28 7 21		Oct	26 16 2	26 23 43
	DEC	28 2 21	27 19 43		Nov	25 4 46	25 14 26
				•	DEC	24 17 30	25 3 15
997.	0	[11 20 48]	12 9 47				
С.В.	JAN	126 15 5	26 9 3	994.	JAN	23 6 15	23 14 12
	FEB	25 8 49	24 28 21	F.	FEB	21 18 59	21 23 30
80 15 9	MAR	25 16 81	25 14 89	81 8 85	MAR	23 7 43	23 7 41
	APRIL.	21 5 18	24 6 18		APRIL	21 20 27	21 15 33
	MAY .	28 18 2	28 21 42		MAY .	21 9 11	21 0 6
	JUNE .	22 6 46	22 12 14		June .	19 21 55	19 10 22
	0	1718	6 14 14		JULY .	19 10 39	18 23 4
	JULY .	121 19 80	22 1 32		Aug	17 23 23	17 14 26
	Aug	20 8 14	20 18 41		SEPT	16 12 7	16 7 59
	SEPT	18 20 58	19 1 0		Oct	∫16 0 51	16 2 37
	Ocr	18 9 42	18 11 56		0	30 19 13	30 11 56
	Nov	16 22 26	16 22 46		Nov	14 13 35	14 20 52
	DEC	(16 11 10	16 9 37		DEC	14 2 19	14 13 32
	0	181 5 82	81 15 18				
			l	993.	JAN	12 15 3	13 3 45
996.	JAN	14 28 54	14 20 81	E.D.	FEB	11 3 47	11 15 18
Α.	FEB	18 12 88	18 7 89	80 14 24	MAR	11 16 32	12 0 33
80 20 58	MAR.	15 1 22	14 19 26		APRIL	∫10 5 16	10 8 10
	APRIL	18 14 6	13 8 17		0	124 23 39	25 3 52
	MAY .	18 2 50	12 21 48		MAY .	9 18 0	9 15 6
	JUNE .	1	11 18 82		JUNE .	8 6 44	7 22 24
	0	26 9 56	26 6 19		JULY.	7 19 28	7 7 12
	JULY .	1	11 5 9		Aug.	6 8 12	5 18 27
	Aug.		9 20 86		SEPT	4 20 56	4 8 46
	SEPT.		8 11 19		Oct.	(4 9 40	4 1 56
	Oct.	7 18 80	8 1 2		0	19 4 2	19 3 39
	Nov.	6 7 11	6 13 43		Nov.	2 22 24	2 21 0
	DEC.	6 19 58	6 1 28			(211 8	2 16 28
	o.	20 14 20			DEC.	31 23 59	2 (
				992.	JAN.		1 1 10 38
1		•		98			

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (○ Full Ecl.)	True New Moon. () Full Ecl.)
B.C. 992. c. March. d. h. m. 30 20 13	Jan Feb Mar	d. h. m.  {  { 30 12 36 }  { 1 1 21	d. h. m. 1 10 38 31 2 17 1 14 53	B.C. 989. G.F. March. d. h. m. 30 13 39	JAN  O FEB MAR	d. h. m. 28 3 46 11 22 8 26 16 30 27 5 15	d. h. m. 28 0 1 12 7 27 26 16 51 27 9 88
50 20 15	O April May . June .	\[ \begin{pmatrix} 30 & 14 & 5 \\ 14 & 8 & 27 \\ 29 & 2 & 49 \\ 28 & 15 & 33 \\ 27 & 4 & 17 \end{pmatrix} \]	31 0 33 14 4 40 29 8 22 28 15 5 26 21 55		APRIL MAY . JUNE . JULY .	25 17 59 25 6 43 23 19 27 23 8 11 $\begin{cases} 7 & 2 & 33 \\ 21 & 20 & 55 \end{cases}$	26 1 11 25 15 7 24 8 12 28 13 45 6 13 45 21 28 27
	AUG SEPT O OCT Nov	26 17 1 25 5 45 23 18 29 8 12 51 28 7 13 21 19 57	26 5 55 24 16 5 23 5 8 8 18 17 22 21 10- 21 15 33		Aug Sept Oct Nov Dec	21 20 55 20 9 39 19 22 23 18 11 7 17 28 51	20 9 5 19 19 13 18 6 6 17 17 48
991. B. 31 2 1	JAN FEB MAR	21 8 41 19 21 25 18 10 9 19 22 53 ( 3 17 15	21 11 0 20 5 50 18 22 35 20 12 25 3 10 35	988, E. 30 19 28	Jan  O FEB MAR APRIL	16 12 85 81 6 57 15 1 19 16 14 8 15 2 47	16 6 24 31 20 86 14 19 57 16 10 29 15 1 46
	APRIL MAY . JUNE . JULY . AUG	18 11 37 18 0 21 16 13 5 16 1 49 14 14 33	18 23 18 18 7 52 16 15 8 15 22 12 14 6 7		MAY . JUNE . JULY . O Aug	14 15 81 18 4 15 (12 16 59 (27 11 21 11 5 48	14 17 17 18 8 22 12 22 81 26 22 88 11 11 28
990.	SEPT OCT Nov DEC	18 3 17 12 16 1 11 4 45 10 17 29 9 6 13	12 15 45 12 8 41 10 18 14 10 11 1 9 5 14		SEPT OCT Nov DEC	9 18 27 9 7 11 7 19 55 7 8 89	9 28 26 9 10 46 7 21 48 7 8 41
A. 31 7 50	FEB O MAR APRIL MAY .	7 18 57 22 13 19 9 7 42 7 20 26	7 23 35 22 15 2 9 16 47 8 7 47 7 20 10	987, D. 31 117	JAN., FEB MAR APRIL MAY.	5 21 28 4 10 7 5 22 52 4 11 86 4 0 20	5 19 24 4 6 9 5 17 17 4 5 15 8 18 81
	JUNE . JULY . AUG SEPT	5 21 54 5 10 38 3 23 22	6 6 16 5 14 49 8 22 52 2 7 21 1 16 59		June . July . Aug Sept	2 13 4 2 1 48 31 14 32 30 3 16 28 16 0	2 9 5 2 0 86 81 16 25 80 7 50 28 22 22
	Nov Dec	(31 13 34	31 4 12 29 17 13 29 7 56		Oct., Nov Dec	28 4 44 26 17 28 26 6 12	23 11 49 27 0 7 26 11 18

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Menn Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 986.	_	d. h. m.	d. h. m.	B.C. 983.		d. h. m.	d. h. m.
March.	JAN	24 18 56	24 21 25	F. March.	JAN	21, 1.0 6	21 22 48
d. h. m.	FEB	23 7 40	28 6 46	d. h. m.	FEB	19 22 50	20 12 52
<b>31</b> 7 6	MAR.	21 20 25	24 15 53	31 0 32	MAR	21 11 34	21 23 53
	APRIL.	28 9 9	23 1 30		Arril	20 0 18	20 8 26
	MAY.	22 21 53	22 12 37		MAY .	19 13 2	19 15 30
	~ O	6 16 15	6 28 6		June .	18 1 46	17 22 9
	JUNE .	21 10 37	21 1 40		JULY.	17 14 30	17 5 30
	July.	20 28 21	20 16 48		Aug	16 3 14	15 14 34
	Aug	19 12 5	19 9 30		SEPT	14 15 58	14 2 13
ı	SEPT	18 0 49	18 2 54		Ocr	14 4 42	13 16 50
	Ocr	17 13 83	17 19 58	,	Nov	12 17 26	12 10 10
	Nov	16 2 17	16 11 36		DEC	12 6 10	12 5 12
	_0	180 20 89	80 11 23				
	DEC	15 15 1	16 1 27	982.	JAN	10 18 54	11 0 27
985.	T	11 0 4	11 10 17	16.	FEB	9 7 38	9 18 17
B.A.	JAN Feb	14 8 45 12 16 29	14 13 17	31 6 21	MAR.,	(10 20 23	11 9 33
80 12 54	MAR.		12 23 12		0	25 14 45	25 8 53
30 12 31	APRIL		18 7 89		APRIL	9 9 7	9 21 49
		11 17 57	11 15 28		MAY.	8 21 51	9 7 28
	MAY.	11 6 41	10 23 19		June .	7 10 35	7 15 17
	JUNE .	0 10 05	26 10 32		JULY.	6 23 19	6 22 26
	July .	9 19 25	9 8 29		Aug.	5 12 3	5 5 57
		1	8 19 52		SEPT.,	<b>4</b> 0 47	8 14 45
	Aug.	7 20 58	7 9 59		0	18 19 9	18 23 19
	SEPT	6 9 87 5 22 21	6 2 41		Ocr	3 13 31	3 1 37
	Nov.		5 21 6		Nov	2 2 15	1 14 53
	0	$\begin{cases} 4 & 11 & 5 \\ 19 & 5 & 27 \end{cases}$	4 15 54 18 22 11		DEC.	<b>1</b> 14 59	1 6 32
	DEC.	8 28 49	18 22 11 4 9 87		DEC. ,	81 3 48	31 0 0
	DEA.	0 20 %	4 8 87				
984.	JAN	2 12 88	8 1 9	981.	JAN.	29 16 27	29 18 15
G.	FEB.	1 1 18	1 14 0	1).C.	FEB	28 5 11	28 12 0
80 18 48	MAR.	2 14 2	8 0 12		0	∫1 <b>3 23 3</b> 3	13 23 16
		(1 2 46	1 8 28	80 12 10	MAR.,	28 17 56	29 4 4
	APRIL	(80 15 80	80 15 24		APRIL	27 6 40	27 17 46
	0	(15 9 52	15 18 80		MAY.	26 19 24	27 4 59
	MAY .	180 4 14	29 22 19		JUNE .	25 8 8	25 14 40
	June .	28 16 58	28 6 18		Juny.	24 20 52	24 22 43
	July .	28 5 42	27 16 11		Aug	2 <b>3</b> 9 36	23 7 4
	Aug.	26 18 26	26 4 59		0	∫ 7 B 59	7 0 20
	SEPT.	25 7 10	21 20 58		SEPT.,	21 22 20	21 16 14
	Ocr.	21 10 54	24 15 15		Ост	21 11 4	21 2 44
	Nov	28 8 88	28 10 48		Nov	19 23 48	19 14 51
	DEC	22 21 22	28 5 49		DEC	19 12 32	19 4 37
	Ì				1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 980.		d. h. m.	d. h. m.	B.C. 977.		d. h. m.	d. h. m.
March.	JAN	18 1 16	17 19 49	F.E.	JAN	15 16 26	15 20 50
d. h. m.	FEB	16 14 0	16 12 5	March. $d. h. m.$	FEB	14 5 10	14 6 18
30 17 59	MAR	18 2 44	18 4 43	80 11 25	MAR	14 17 54	14 15 13
1	APRIL	16 15 28	16 20 50		APRIL	13 6 38	13 0 15
	MAY .	16 4 12	16 11 41		MAY .	12 19 22	12 10 19
	JUNE.	14 16 56	15 0 47		June .	11 8 6	10 22 13
	JULY.	14 5 40	14 12 14		0	26 2 28	26 6 44
	Aug	12 18 24	12 22 33		July.	10 20 50	10 12 20
	SEPT	11 7 8	11 8 23		Aug	9 9 34	9 4 29
	Oct	10 19 52	10 18 26		SEPT	7 22 18	7 21 52
. ]	Nov	9 .8 36	9 5 0		Ocr	7 11 2	7 15 26
	DEC	8 21 20	8 16 16		Nov	5 23 46	6 8 6
					DEC	5 12 30	5 23 4
979.	JAN	7 10 4	7 4 14				
A.	0	22 4 26	22 17 55	076	JAN	4 1 14	4 11 55
	FEB	5 22 48	5 17 1	976.	FEB.	2 13 58	2 22 39
30 23 47	MAR.	7 11 33	7 6 47	30 17 14	MAR.	4 2 43	4 7 36
	APRIL	6 0 17	5 21 27	30 17 14	APRIL	2 15 27	2 15 25
	MAY.	5 13 1	5 12 46		EXPRIL	(2 4 11	1 22 57
	JUNE.	4 1 45	<b>4 4</b> 9		MAY.	31 16 55	31 7 15
	July.	3 14 29	3 18 57		June.	30 5 39	29 17 24
	0	18 8 51	17 2 <b>1 4</b> 3		JULY.	29 18 23	29 6 7
	Aug	2 3 13	2 8 46		Aug.	28 7 7	27 21 41
		31 15 57	31 2 <b>1</b> 30		SEPT.	26 19 51	26 15 32
	SEPT	80 4 41	30 9 23		Oct	26 8 35	26 10 29
	Ост	29 17 25	29 20 45		0	(10 2 57	9 20 49
	Nov	28 6 9	28 7 46		Nov.	24 21 19	25 5 5
	DEC	27 18 53	27 18 29		DEC.	24 10 3	24 21 51
978.	0	(11 13 15	11 21 50				
G.	JAN.	26 7 37	26 4 59	975.	JAN	22 22 47	23 12 3
	FEB	24 20 21	24 15 35	с.	FEB	21 11 31	21 28 24
31 5 26	MAR.	26 9 6	26 2 47	30 23 3	MAR	23 0 16	23 8 24
	APRIL	24 21 50	24 15 8		APRIL	21 13 0	21 15 46
	MAY .	24 10 34	24 4 55		0	(6 7 22	6 10 22
	JUNE .	22 23 18	22 20 2		MAY .	21 1 44	20 22 32
	0	7 17 40	7 13 55		June.	19 14 28	19 5 46
	JULY.	22 12 2	22 11 55		July.	19 3 12	18 14 35
	Aug	21 0 46	21 3 52		Aug	17 15 56	17 1 58
	SEPT	19 13 30	19 19 10		SEPT	16 4 40	15 16 25
	Oct	19 2 14	19 9 28	,	Oct	(15 17 24	15 9 45
	Nov	17 14 58	17 22 31		0	30 11 46	30 12 31
	DEC	17 3 42	17 10 17		Nov	14 6 8	14 4 57
	0	31 22 4	31 21 13		Dec	13 18 52	14 C 28

Mean	Month	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New	True New
Vernal Equinox.	Month.	(O Full Ect.)	(O Full Ecl.)	Equinox.	Month.	Moon. (O Full Ecl.)	Moon. (O Full Ecl.)
B.C. 974.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
в.	JAN	<b>12</b> 7 36	12 18 36	971.	JAN	8 22 46	8 16 9
March.	FEB	<b>1</b> 0 20 20	11 10 8	E.	FEB	(71130	7 7 41
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAR	12 9 4	12 22 33	March. d. h. m.	0	22 5 52	22 15 38
	APRIL	(10 21 48	11 8 11	30 22 18	MAR	9 0 14	8 23 56
	0	(25 16 10	25 11 20		APRIL	7 12 58	7 16 14
	May -	10 10 82	10 15 48		MAY .	7 1 42	7 7 44
	June -	8 28 16	8 22 33		June .	5 14 26	5 21 49
·	JULY .	8 12 0	8 5 28		JULY.	5 3 10	5 10 15
	Aug.	7 0 41	6 13 39		Aug	( 3 15 54	3 21 17
	SEPT	5 13 28	5 0 1		0	18 10 16	17 21 15
	Ост.	( 5 2 12	4 13 13		SEPT.	2 4 38	2 7 82
	0	19 20 81	20 2 50			( 1 17 22	1 17 40
	Nov.	8 14 56	8 4 57		Ост	31 6 6	31 4 6
	DEC	8 8 40	2 28 85		Nov	29 18 50	29 15 2
					DEC	29 7 34	29 2 30
070	JAN	1 16 24	1 18 48				
973.	JAN	181 5 8	81 18 24	970.	JAN	27 20 18	27 14 37
22.01	FEB	29 17 58	ſ	D.	0	(11 14 40	12 4 35
		ſ	1 5 58		FEB.	26 9 2	26 3 34
80 10 40	MAR	180 687	80 19 41	81 4 7	MAR.	27 21 47	27 17 31
	0	114 0 59	18 17 48		APRIL	26 10 31	26 8 22
	APRIL	28 19 21	29 6 32		MAY .	25 28 15	25 23 43
	MAY .	28 8 5	28 15 11		JUNE .	24 11 59	24 14 57
1	JUNE .	26 20 49	26 22 88		JULY .	24 0 43	24 5 31
	July .	26 9 88	26 5 59		0	7 19 5	7 6 17
	Aug	24 22 17	24 14 12		Aug.	22 13 27	22 19 3
	SEPT	28 11 1	28 0 6		SEPT.	21 2 11	21 7 38
	Ocr	22 28 45	22 12 12		Oct	20 14 55	20 19 28
Ì	Nov	21 12 29	21 2 39		Nov.	19 3 39	19 6 46
	DEC	21 1 13	20 19 10		DEC.	18 16 23	18 17 37
972.	JAN	19 18 57	19 12 57				
F.	FEB.	18 2 41	18 6 54	969.	JAN	17 5 7	17 4 3
	0	(4 21 8	4 28 7	C,B.	FEB	15 17 51	15 14 19
30 16 29	MAR.	19 15 20	19 28 48	80 9 56	MAR	16 6 35	16 0 51
20 20	APRIL	18 4 10	18 14 39		APRIL	14 19 19	14 12 18
	MAY .	17 16 54	18 8 7		MAY .	14 8 3	14 1 9
	June .	16 5 88	16 18 27		JUNE .	12 20 47	12 15 34
	JULY .	15 18 22	15 22 28		July .	12 9 31	12 7 13
	Aug.	14 7 6	14 6 49		Aug	10 22 15	10 23 26
	SEPT.	12 19 50	12 15 48		SEPT	9 10 59	9 15 26
	Ocr.	12 8 84	12 1 40		Oct	8 23 43	9 6 33
	Nov.	10 21 18			Nov	7 12,27	7 20 28
	DEC.	10 10 2			DEC	7 1 11	7 8 58

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full E 1.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 968.		d. h. m.	d. h. m.	B.C. 965.		d. h. m.	d. h. m.
Monah	JAN	5 13 55	<b>5204</b>	E.D.	JAN	3 5 5	3 13 44
d. h. m.	FEB	4 2 39	4 5 53	March.	FEB	1 17 49	2 6 <b>3</b> 3
30 15 44	MAR	5 15 24	5 14 48	d. h. m. 30 9 11	W	§ 2 6 34	2 20 33
	APRIL	448	3 23 26	50 9 11	MAR	31 19 18	(1 7 58
	MAY .	3 16 52	3 8 40		APRIL	30 8 2	(30 15 53
	June .	(2 5 36	1 19 26		MAY .	29 20 46	29 22 57
	0	16 23 58	17 6 24		June .	28 9 30	28 5 41
	T	(1 18 20	1 8 22		JULY.	27 22 14	27 13 12
	JULY.	[31 7 4]	30 23 39		Aug	26 10 58	25 22 30
	Aug	29 19 48	29 16 41		SEPT	24 28 42	24 10 20
	SEPT	28 8 32	28 10 32		Ocr	24 12 26	24 1 2
	Ост.	27 21 <b>1</b> 6	28 4 1		Nov	23 1 10	22 18 17
	Nov	26 10 0	26 20 5		DEC	22 13 54	22 18 8
	. 0	(11 4 22	10 19 50	•			
	DEC	25 22 44	26 10 5	964.	JAN	21 2 38	21 8 6
				c.	FEB	19 15 22	20 1 41
967.	JAN	24 11 28	24 21 46	30 15 0	MAR	21 4 7	21 16 48
G.	FEB	23 0 12	23 7 24		0	§ 4 22 29	4 16 20
30 21 33	MAR	24 12 57	24 15 31		APRIL	19 16 51	20 5 0
	APRIL	23 1 41	22 22 55		MAY.	19 5 33	19 14 41
	MAY .	22 14 25	22 6 35		June .	17 18 <b>1</b> 9	17 22 42
	0	6 8 47	6 17 25		JULY.	17 7 3	17 6 6
	June.	21 3 9	20 15 36		Aug	15 19 47	15 13 56
	JULY.	20 15 53	20 2 58		SEPT	(14 8 31	13 23 5
	Aug	19 4 37	18 17 12		0	129 2 53	29 <b>7 17</b>
	SEPT	17 17 21	17 10 7		Ост	13 21 15	13 10 8
	Ост	17 6 5	17 4 51		Nov	12 9 59	11 23 25
	Nov	<b>∫15 18 4</b> 9	15 23 58		DEC	11 22 43	11 14 50
1	0	(30 13 11	30 7 3				
	DEC	15 7 33	15 17 52	963.	Jan	10 11 27	10 7 54
000	T	10.00 ==		B.	FEB	9 0 11	9 1 41
966. F.	JAN	13 20 17	14 9 26	<b>30 20 4</b> 9	MAR	(10 12 55	10 19 2
	FEB	12 9 1	12 22 7		0	25 7 17	25 7 5
81 3 22	MAR.	13 21 45	14 8 5		APRIL	9 1 39	9 10 58
	APRIL	12 10 29	12 16 1		MAY.	8 14 23	9 0 34
	MAY .	(11 23 13	11 22 53		JUNE.	7 8 7	7 12 1
	June .	26 17 35	26 21 11		JULY .	6 15 51	6 21 41
-		10 11 57	10 5 43		Aug	5 4 83	5 6 29
ł	JULY.	10 0 41	9 13 37		SEPT	3 17 19	8 15 18
	Aug	8 13 25	7 23 41		0	18 11 41	18 7 43
	SEPT.	7 2 9	6 12 33		Ocr	3 6 3	3 0 51
	Oct	6 14 53	6 4 40		Nov	1 18 47	§ 1 11 33
1	Nov Dec	5 8 37	4 23 9		DEC	f 1 7 31	180 28 86
	DEC.	4 16 21	4 18 45			(30 20 15	30 13 0
	<u> </u>		1	[]		!	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 962.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
A	JAN	29 9 0	29 3 43	959.	0	(11 5 48	11 5 1
d. h. m.	FEB	27 21 44	27 19 23	March.	JAN	{26 0 10	26 5 25
31 2 37	MAR	29 10 28	29 11 31	d. h. m.	FEB	24 12 54	24 14 30
	APRIL	27 23 12	28 3 24	30 20 4	MAR	26 <b>1 3</b> 8	25 22 58
	MAY .	27 11 56	27 18 16		APRIL	24 14 22	24 7 34
1	June .	26 0 40	26 7 41		MAY .	24 3 6	23 17 18
	JULY.	25 13 24	25 19 36		June.	22 15 50	22 5 1
	Aug	24 2 8	24 6 26		0	5 7 10 12	7 14 13
	SEPT	22 14 52	22 16 49		July.	22 4 31	21 19 10
	Ост	22 3 36	$22 \ 3 \ 15$		Aug	20 17 18	20 11 32
	Nov	20 16 20	20 13 59		SEPT	19 6 2	19 5 20
	DEC	20 5 4	20 1 6		Ост	18 18 46	18 23 23
		,			Nov	17 7 30	17 16 28
961.	JAN	18 17 48	18 12 40		Dec	16 20 14	17 7 38
G.F.	0	( 2 12 10	3 1 54		_		47 00 07
	FEB	17 6 32	17 0 53	958.	JAN	15 8 58	15 20 27
30 8 26	MAR	17 19 17	17 14 2	C.	FEB	13 21 42	14 6 57
	APRIL	16 8 1	16 4 12	31 1 53	MAR	15 10 27	15 15 36
	MAY .	15 20 45	15 19 14		APRIL	13 23 11	13 23 5
	June .	14 9 29	14 10 39		MAY .	13 11 55	13 6 20
	July .	(13 22 13	14 1 46		JUNE .	12 0 39	11 14 27
	0	28 16 35	28 5 21		JULY.	11 13 23	11 0 31 9 13 20
	Aug	12 10 57	12 16 6		Aug.	10 2 7 8 14 51	8 5 4
ļ	SEPT	10 23 41	11 5 27		SEPT.	8 3 35	7 23 12
	Ост	10 12 25	10 17 54		Oct		6 18 27
	Nov	9 1 9	9 5 37		Nov.	$\begin{cases} 6 & 16 & 19 \\ 21 & 10 & 41 \end{cases}$	21 5 45
	DEC	8 13 53	8 16 44		DEC.	6 5 3	6 13 15
					DEC	0 0 0	0 10 10
960.	JAN	(7 2 37	7 8 15	957.	JAN	4 17 47	5 6 6
E.	0	21 20 59	22 5 34	B.A.	FEB.	3 6 31	3 20 11
	FEB	5 15 21	5 13 21	£0 7 42	MAR.	3 19 15	4 7 21
30 14 15	MAR	7 4 5	6 23 25	** . ==	APRIL	2 7 59	2 16 6
	APRIL	5 16 49	5 10 3			, 1 20 43	1 23 18
	MAY .	5 5 33	4 21 55	il	May O	16 15 5	16 15 44
	JUNE .	3 18 17	3 11 27			31 9 27	31 5 57
	JULY .	(3 7 1	3 2 35	1	JUNE .	29 22 11	29 13 10
	0	18 1 28	17 21 36		JULY.	29 10 55	28 22 6
	Aug	( 1 19 45	1 18 45		Avg	27 23 39	27 9 36
	12.00.	(31 8 29	31 11 12		SEPT	26 12 23	26 0 13
	SEPT	29 21 13	30 3 8		Oct	23 1 7	25 17 39
	Oct	29 9 57	29 17 57		0	( 9 19 29	9 21 26
	Nov	27 22 41	23 7 18		Nov	24 13 51	24 12 54
	DEC	27 11 23	27 19 5		DEC	24 2 35	24 8 23
		1		l1	ļ		1

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
B.C. 956. G. March. d. h. m. 30 13 30	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG OCT, . O Nov DEC	d. h. m.  22 15 20  21 4 4  22 16 48  21 5 82  5 23 54  20 18 16  19 7 0  18 19 44  17 8 23  15 21 12  (15 9 56  30 4 18  13 22 40  13 11 24	d. h. m. 23 2 26 21 17 49 23 6 6 21 15 37 5 18 0 20 23 14 19 6 1 18 13 8 16 21 33 15 8 9 14 21 28 30 11 29 13 18 29 13 7 37	B.C. 953. D.C. March. d. h. m. 30 6 57	JAN FEB O MAR APRIL MAY - JUNE - JULY - AUG O SEPT OCT NOV DEC	d. h. m. 20 6 80 18 19 14 4 18 86 19 7 58 17 20 42 17 9 26 15 22 10 15 10 54 (13 23 88 28 18 0 12 12 22 12 1 6 10 18 50 10 2 84	d. h. m. 20 0 17 18 15 18 4 28 40 19 6 55 17 22 50 17 14 15 16 4 81 15 17 22 14 4 58 28 4 36 12 15 47 12 2 22 10 18 8 9 23 57
955. F. 30 19 19 954. E.	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	12 0 8 10 12 52 12 1 36 (10 14 20) (25 8 42 10 3 4 8 15 48 8 4 32 6 17 16 5 6 0 4 18 44 3 7 28 2 20 12 (1 8 56 (30 21 40 (1 10 25	12 2 34 10 20 51 12 13 11 11 2 47 25 0 58 10 13 41 8 22 28 8 6 10 6 13 51 4 22 26 4 8 36 2 20 48 2 11 6 1 3 15 30 20 33  1 14 2 16 7 6	952. B. 30 12 46	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	8 15 18 { 7 4 2 { 21 22 24 8 16 46 7 5 30 6 18 14 5 6 58 4 19 42 { 3 8 26 { 18 2 48 1 21 10 { 1 9 54 { 30 22 38 29 11 22 29 0 6  27 12 51 26 1 35	8 11 7 6 22 44 22 12 25 8 11 4 7 0 26 6 14 52 5 6 9 4 21 35 8 12 36 17 14 4 2 2 45 1 15 55 31 4 18 29 15 42 29 2 27 27 12 87 25 22 22
3. 1	APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	30 28 9 29 11 58 29 0 37 27 18 21 27 2 5 25 14 49 24 8 38 23 16 17 22 5 1 21 17 45	31 6 37 29 21 23 29 9 59 27 20 37 27 5 58 25 14 54 21 0 14 23 10 27 21 21 50 21 10 26	30 18 35	MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	27 14 19 26 8 8 25 15 47 24 4 31 23 17 15 22 5 59 20 18 48 20 7 27 18 20 11 18 8 55	27 8 21 25 19 17 25 7 49 28 22 7 28 13 58 22 6 85 20 23 9 20 14 51 19 5 8 18 17 47

B.C. 950.  "A arch. 6.	Mean Vernal Equinox,	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Menn New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
March   A   A   B   B   B   B   B   B   B   B			d. h. m.	d. h. m.			d. h. m.	d, h. m.
March d. h. m.   Feb.   15 10 28   15 14 14   13 1 0 23   15 13 12   15 14 14   14 15 17   15 10 28   15 14 14   15 17   15 10 28   15 14 14   15 17   15 11 52   15 6 55   15 12 14 15   15 6 55   15 12 14 15   15 6 55   15 12 14 15   15 6 55   15 12 14 15   15 6 55   15 12 14 15   15 6 15   15 11 52   15 6 55   15 12 14 15   15 6 14 14   15 47   15 14 14   15 46   11 23 16 16   12 24 15   15 6 14 14   15 47   15 46   11 23 16 16   12 24 15   15 6 14 14   15 47   15 46   11 23 16 16   12 24 15   15 6 15 15   15 6 15 15   15 6 15   15 6 15   15 6 15   15 6 15   15 6 15   15 6 15 6		TAN.	16 21 39	17 4 45		TAN	12 19 40	19 01 94
## APRIL   16 28 8   16 22 44   15 11 52   15 6 655   MAY   15 0 86   14 15 47   JUNE   (13 13 20)   13 2 19   10 4 80   10 6 28   JUNE   4 20 10 4 9 20   JUNE   4 20 10 4 9					March.			
APRIL   15   11   52   15   6   55   14   15   17   18   20   10   20   20   20   20   20   20								1 (
MAY . 15 0 86 14 15 47  June . (13 13 20) 13 2 19  0 (28 7 42 28 13 44)  July . 18 2 4 12 15 13  Aug . 11 14 48 11 6 36  Sept . 10 3 32 10 0 0  Oct . 9 16 16 9 18 18  Nov . 8 5 0 8 12 13  Dec . { 7 17 44 8 4 34 34}  22 12 6 22 4 17  P.E. Feb . 4 19 12 5 6 88  80 6 12 Mar . 5 7 56 5 15 29  April . 10 52  July . 10 52  July . 20 8 25 19 21 9  Aug . 22 18 6 22 2 17  P48. Jan . 24 4 1 24 17 34  Nov . 26 2 92 2 88 8 1  O (10 20 54 10 15 53)  Dec . 27 13 48  Dec . 27 15 6 25 29  April . 0 (10 20 54 10 15 53)  Dec . 26 6 7 26 5 29  April . 0 (10 20 54 10 15 53)  Dec . 27 18 48 27 12 48  Nov . 26 2 92 (26 67 22 6 20)  O (26 1 19 6 3 42)  June . 20 19 20 19 41 20 13 9  June . 20 20 39 31 742 23 75  April . 22 18 13 22 23 87  Mar . 22 6 67 22 6 20  O (6 1 19 6 3 42)  June . 20 8 25 19 21 9  Aug . 18 21 9 18 7 21  Sept . 10 4 30 10 6 28  June . 10 4 90 10 6 6 28  June . 20 19 24 1 5 25  April . 22 18 13 22 23 87  Mar . 22 18 38 22 23 87  Mar . 22 18 13 22 23 7 17 42  Oct . 27 13 48  Nov . 28 17 42 21  Oct . 10 10 3 32  Oct . 10 10 10 36 10 15 20  Oct . 10 10 10 36 10 15 30  Oct . 13 13 47 11 50 11 17 19 8  Mar . 18 22 7 19 72  Mar . 22 18 13 22 23 87  Mar . 22 18 13 22 23 87  Mar . 22 18 13 22 23 87  Mar . 22 18 13 22 23 87  Mar . 22 18 13 22 23 87  Mar . 22 18 13 22 23 87  Nov . 27 18 48  Nov . 28 14 14 40  Nov . 18 17 10 16  Nov . 18	01 0 20				20 17 20			
June . {18 18 20 18 2 19	1					1		
O				1 . 1		i	1	1
July . 18 2 4 12 15 18 Aug 11 14 48 11 6 36 Sert . 10 3 32 10 0 0 Oct 9 16 16 9 18 18 Nov 8 5 0 8 12 18 Dec \$\) 7 17 44 8 4 34 O \) \$\) 22 12 6 22 4 17  949. F.E. Fell 4 19 12 5 6 8 80 6 12 MAR 5 7 56 5 15 29 April . 3 20 40 3 23 16 MAY . 3 9 24 3 6 22 June . \$\) 10 10 50 Oct 9 16 16 9 18 18 Nov 8 5 0 0 8 12 18 MAY . 3 9 24 3 6 22 June . \$\) 1 10 52 Sept . 28 1 4 27 17 42 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 27 18 48 27 12 48 Nov 26 2 32 26 8 1 Oct 16 19 6 3 42 June . 20 19 41 20 13 9 July . 20 8 25 19 21 9 Aug 18 21 9 18 7 21 Sept . 16 22 37 16 12 36 Nov 15 11 21 15 7 9								
Aug. 11 14 48 11 6 36 Sept. 10 3 32 10 0 0 Oct. 9 16 16 9 18 18 Nov. 8 5 0 8 12 13 Dec. 7 17 44 8 4 84 O 22 12 6 22 4 17  949. F.E. Feb. 4 19 12 5 6 8 30 6 12 Mar. 5 7 56 5 15 29 April 3 20 40 3 28 16 May 3 9 24 3 6 22 June 6 16 6 30 Cot. 10 52 32 47 Julx - 20 12 20 29 0 32 Sept. 28 1 4 27 17 42 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 8 1 O 210 20 54 10 15 58 Dec. 27 18 48 27 12 48 D. Get. 22 16 45 28 6 6 30 12 1 Mar. 24 4 1 24 17 34 D. Feb. 22 16 45 28 6 6 30 12 1 Mar. 22 16 45 29 6 6 30 12 1 Mar. 22 18 18 22 23 37 May 22 6 57 22 6 20 O 6 6 1 19 6 3 42 June 20 19 41 20 13 9 Julx 20 8 25 19 21 9 Aug. 18 21 9 18 7 21 Sept. 17 9 58 16 20 28 Oct. 16 22 37 16 12 36 Nov. 12 28 11 21 15 7 9 Nov. 12 28 11 10 22 Nov. 16 28 37 16 12 36 Nov. 16 28 37 16 12 36 Nov. 12 28 11 10 20 Nov. 12 28 15 16 Oct. 16 22 37 16 12 36 Nov. 12 28 11 39 18 20 20 Nov. 12 28 11 39 18 20 20 Nov. 12 28 11 20 26 Nov. 12 28 15 16 Oct. 16 28 27 16 12 36 Nov. 12 28 11 20 28 Nov. 12 28 11 39 18 29 21 Nov. 15 11 21 15 7 9		-	4	1		1 .	1	
SETT 10 3 32 10 0 0 OCT. 6 7 26 5 18 36 Nov. 8 5 0 6 12 18 DEC. 71 7 44 8 4 34 34 OCT. 6 6 6 28 6 18 37 F.E. Feb. 4 19 12 5 6 8 8 30 6 12 Mar. 5 7 56 5 15 29 Arrill 8 20 40 3 28 16 OCT. 28 14 27 10 16 30 22 47 June 2 10 10 20 24 10 15 53 DEC. 28 1 4 27 17 42 OCT. 28 1 32 2 2 3 6 30 12 1 Mar. 24 4 1 24 17 34 DEC. 28 1 32 2 3 6 30 12 1 Mar. 22 1 6 5 7 2 2 6 6 7 2 6 2 0 OCT. 22 1 6 45 28 6 6 30 12 1 Mar. 22 6 57 22 6 20 OCT. 22 18 18 22 28 7 DEC. 28 6 26 22 28 6 3 10 10 OCT. 28 17 42 28 6 30 12 1 Mar. 22 16 45 28 6 6 30 12 1 Mar. 22 18 18 22 28 3 6 OCT. 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	İ		ì	1				
Oct. 9 16 16 9 18 18 Nov. 4 20 10 4 9 20 Dec. 7 17 44 8 4 84 4 2 26 Dec. 7 17 44 8 4 84 84 Oct. 1 20 12 12 6 22 4 17 Dec. 1 10 22 1 15 87 Sept. 1 10 52 Sept. 28 1 4 27 17 42 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 6 8 1 Oct. 27 18 48 27 12 48 Nov. 26 2 82 2 66 8 1 Oct. 27 18 18 27 18 22 28 7 59 Dec. 28 6 26 22 28 6 SI Oct. 28 6 20 Oct. 28 19 25 28 15 14 25 Oct. 28 18 18 21 9 18 7 21 Oct. 28 18 18 28 28 Oct. 28 Oct. 28 Oct. 28 Oct. 28 Oct. 28 Oct. 28 Oct. 28 Oct. 28 O			i	1				
Nov 8 5 0 8 12 13 DEC \ \ 7 17 44 8 4 34 34 O \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								
949. JAN 6 6 28 6 18 87 F.E.		-		"				
949. JAN 6 6 28 6 18 37 FEB 4 19 12 5 6 8 8 30 6 12 1 MAR 2 21 88 2 20 59 FEB 3 0 28 89 MAR 2 23 6 3 8 56 APRIL						Dec	4 8 54	4 2 26
949. JAN 6 6 28 6 18 87 F.E. FEB 4 19 12 5 6 8 30 6 12 MAR 5 7 56 5 15 29 APRIL			1)					
949. JAN 6 6 28 6 18 87   F.E. FEE 4 19 12 5 6 8 8 8 30 6 12 MAR 5 7 56 5 15 29 APRIL		0	(22 12 6	22 4 17	946.	JAN	2 21 38	2 20 59
F.E. Feb 4 19 12 5 6 8 8 30 23 39 Mar 2 23 6 3 8 8 56     Mar 5 7 56 5 15 29     April 3 20 40 3 23 16     May . 3 9 24 3 6 22     June . { 1 22 8	040	T	6 6 90	0.10.07	в.	FEB	1 10 22	1 15 37
Mar.			1	1 1	30 23 39	Mar	2 23 6	3 8 56
MAR.	Į i					APRIL	( 1 11 50	1 23 52
MAY . 3 9 24 3 6 22   June . 1 22 8   1 13 50   16 16 30   17 0 16   30 22 47   July . 20 12 20 29 0 32   Sept 23 1 4 27 17 42   Out 27 13 48 27 12 43   Nov 26 2 32 26 8 1   O	30 6 12		1			0	12	15 23 40
June . { 1 22 8   1 18 50   17 0 16   30 22 47						70.0	(1 0 34	1 12 4
O			1			MAY.	(30 13 18	30 21 52
Separation   Sep	-		12	1 18 50		JUNE.	29 2 2	29 6 7
July - \begin{cases} 30 23 36 & 30 10 10 & 20 & 22 & 4 & 25 & 7 & 82 & 25 & 16 & 14 & 25 & 7 & 15 & 17 & 19 & 8 & 25 & 16 & 14 & 25 & 17 & 15 & 17 & 19 & 8 & 25 & 15 & 16 & 25 & 15 & 16 & 25 & 16 & 14 & 25 & 25 & 15 & 16 & 25 & 25		0	1			JULY.	28 14 46	28 13 51
Aug.   29 12 20   29 0 32		July .	12	1		Aug	27 3 30	26 22 4
SETT. 28 1 4 27 17 42 Oct. 27 18 48 27 12 48 Nov. 26 2 82 26 8 1 O (10 20 54 10 15 53 DEC. 25 15 16 26 2 2  948. D. Feb. 22 16 45 23 6 6 30 12 1 Mar. 24 5 29 24 15 52 April 22 18 18 22 23 37 May 22 6 57 22 6 20 O (6 1 19 6 3 42 June 20 8 25 19 21 9 Aug. 18 21 9 18 7 21 Sept. 17 9 53 16 22 28 Oct. 16 22 87 16 12 36 Nov. 12 28 1 11 20 26			1	1 6		SEPT.	25 16 14	25 7 32
948. Jan. 24 4 1 24 17 34 D. Feb. 22 16 45 23 6 6 30 12 1 Mar. 21 5 29 24 15 52 April 22 18 13 22 23 37 May 22 6 57 22 6 20 O 6 1 19 6 3 42 June 20 8 25 19 21 9 Aug. 18 21 9 18 7 21 Sept. 17 9 53 16 20 28 Oct. 16 22 37 16 12 36 Nov. 2 13 18 47 13 9 34 Nov. 15 11 21 15 7 9						0	(10 10 36	10 15 9
OCT 27 13 48 27 12 43   Nov 28 17 42 23 7 59   Nov 26 2 82 26 8 1   O	1					Ocr	25 4 58	24 18 46
O	i		1	1 1			23 17 42	23 7 59
948. Jan. 24 4 1 24 17 34 D. Feb. 22 16 45 23 6 6 30 12 1 Mar. 21 5 29 24 15 52 April 22 18 18 22 23 37 May 22 6 57 22 6 20 O 6 1 19 6 3 42 June 20 8 25 19 21 9 Aug. 18 21 9 18 7 21 Sept. 17 9 53 16 22 28 Nov. 15 11 21 15 7 9  945. Jan. 21 19 10 21 15 42 A.g. Feb. 20 7 54 20 8 58 Mar. 20 20 39 21 1 56 O 4 15 1 4 14 49 April 19 9 28 19 17 37 May 18 22 7 19 7 21 June 17 10 51 17 19 3 July 20 8 25 19 21 9 Aug. 18 21 9 18 7 21 Sept. 17 9 53 16 20 28 Oct. 16 22 37 16 12 36 Nov. 12 2 31 11 20 26	1	\$				DEC	23 6 26	22 23 6
948. JAN. 24 4 1 24 17 34	i		12		i .			
948. JAN. 2 24 4 1 24 17 34 A.G. FEB. 20 7 54 20 8 58  D. FEB. 22 16 45 23 6 6 80 5 28 MAR. 20 20 39 21 1 56  30 12 1 MAR. 21 5 29 24 15 52 O		DEC	(25 15 16	26 2 2	045	TAN	21 19 10	21 15 49
D.   Feb.   22 16 45   23 6 6   30 5 28   Mar.   20 20 39   21 1 56	040	T	01 1 1	04 17 04			ŀ	1 1
30 12 1   Mar.   24 5 29   24 15 52   O   { 4 15 1 4 14 49		i						
APRIL 22 18 18 22 23 37	1		1	1	30 0 40		1	
MAY . 22 6 57 22 6 20	50 12 1		1	1	,		1)	
O			1					
June . 20 19 41 20 13 9 July . 16 28 35 17 5 8  July . 20 8 25 19 21 9  Aug 18 21 9 18 7 21  Sept 17 9 53 16 20 28  Oct 16 22 37 16 12 36  Nov 15 11 21 15 7 9 July . 16 28 35 17 5 8  July . 16 28 35 17 5 8  Aug 16 28 35 17 5 8  Aug 15 12 19 15 14 25  Sept (14 1 3 13 23 42  Cot 16 22 37 16 12 36  Nov 12 2 31 11 20 26							i	
July 20 8 25 19 21 9 Aug. 15 12 19 15 14 25 Aug. 18 21 9 18 7 21 Sept. 17 9 58 16 20 28 Oct. 16 22 37 16 12 36 Nov. 15 11 21 15 7 9 Nov. 12 2 31 11 20 26	1	!	12	1			1	
Aug. 18 21 9 18 7 21 Sept. (14 1 8 13 23 42 Sept. 17 9 58 16 20 28 Oct. 16 22 37 16 12 36 Nov. 15 11 21 15 7 9 Nov. 12 2 31 11 20 26	l l		1					
Sept.   17 9 58   16 20 28   Oct.   16 22 37   16 12 36   Nov.   15 11 21   15 7 9   Nov.   12 2 31   11 20 26	1			1				
Ост.     16     22     37     16     12     36       Nov.     15     11     21     15     7     9         Ост.     13     13     47     13     9     34       Nov.     15     11     21     15     7     9			t	1		i .	13	1
Nov. 15 11 21 15 7 9 Nov. 12 2 81 11 20 26	-			1 1		}	1	
1 1107   10 11 21 10 1 0				1		l	1	
Dec.   15 0 5   15 9 49   Dec.   11 15 15   11 8 21			1					1 1
DEC 15 0 5 15 2 42 DEC 11 15 15 11 8 21		DEC.	15 0 5	15 2 42		JUEU.	11 10 10	120 21

		<del></del>					
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Eci
B.C. 944.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m
F.	JAN	10 3 59	9 21 23	941.	JAN	(7199	8 3 49
March.	FEB	8 16 43	8 11 29	C.B.	0	22 13 31	22 12 41
30 11 16	MAR.	(10 5 27	10 2 34	March.	FEB	6 7 58	6 13 52
00 22 20	0	24 23 49	25 7 49	d. h. m. 30 4 43	MAR.	6 20 37	6 22 35
	APRIL	8 18 11	8 18 14	00 1 10	APRIL	5 9 21	5 6 36
	MAY.	8 6 55	8 9 53		MAY.	4 22 5	4 14 49
	JUNE .	6 19 39	7 0 50		JUNE .	3 10 <b>4</b> 9	3 0 17
	JULY.	6 8 23	6 14 35		JULY.	( 2 28 83	2 11 59
}	Aug.	4 21 7	5 3 0		0	17 17 55	17 21 45
	SEPT.	3 9 51	3 14 27			(1 12 17	1 2 5
	Ocr.	2 22 35	3 1 21		Aug	(31 1 1	30 18 42
	Nov.	1 11 19	(1127		SEPT	29 18 45	29 12 54
		(1 0 3	30 22 56		OCT.	29 2 29	29 7 24
	DEC	30 12 47	30 9 53		Nov.	27 15 13	28 0 48
1		(00 12 21	00 000		DEC.	27 3 57	27 16 6
943.	JAN	29 1 31	28 21 1		DEC	2. 00.	2. 10
E.	0	(12 19 53	13 9 43	940.	JAN	25 16 41	26 4 51
1	FEB.	27 14 16	27 8 39	Α.	FEB.	24 5 25	24 15 7
30 17 5	MAR.	29 3 0	28 21 10	30 10 32	MAR.	25 18 10	25 23 20
	APRIL	27 15 44	27 10 53		APRIL	24 6 54	24 6 30
	MAY .	27 <b>4</b> 28	27 1 40		MAY.	23 19 38	23 13 40
	JUNE .	25 17 12	25 17 9		JUNE .	22 8 22	21 21 41
1	JULY .	25 5 56	25 8 37		JULY .	21 21 6	21 7 47
ļ	0	(9 0 18	8 13 7		Aug.	20 9 50	19 20 43
1	AUG	23 18 40	23 23 31		SEPT.	18 22 34	18 12 36
	SEPT	22 7 24	22 13 30		Ocr.	18 11 18	18 6 59
1	Ocr	21 20 8	22 2 29		Nov.	17 0 2	17 2 2
1	Nov	20 8 52	20 14 30		0	( 1 18 24	1 14 39
	DEC.	19 21 36	20 1 38		DEC.	16 12 46	16 21 19
1	1					(	
942.	JAN	18 10 20	18 11 55	939.	JAN	15 1 30	15 14 15
D.	0	§ 2 4 42	2 13 7	G.	FEB	13 14 14	14 4 10
1	FEB	16 23 4	16 21 36	30 16 21	MAR	15 2 59	15 15
30 22 54	MAR	18 11 <b>4</b> 9	18 7 8		APRIL	13 15 43	13 23 4
	APRIL	17 0 33	16 17 15		MAY .	(13 4 27	18 6 4
1	MAY .	16 13 <b>1</b> 7	16 4 43		0	27 22 49	27 28 1
	JUNE .	1	14 18 2		June .	11 17 11	11 13 2
1	JULY.	<u> </u>	14 9 13		JULY .	11 5 55	10 20 4
1	0	129 9 7	29 5 23		Aug	9 18 39	9 5 4
1	Aug.		13 1 44		SEPT	8 7 23	7 17 2
1	SEPT		11 18 42		Ocr	7 20 7	7 81
1	Ост.	1	11 11 11		Nov	(6 8 51	6 1 4
	Nov		10 2 28		0	21 3 13	21 6 2
	DEC	9 6 25	9 16 4	,	DEC	5 21 35	5 20 5
	1	1			1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 938.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
F. March.	JAN	4 10 19	4 16 14	935.	T	(1 1 29	
d. h. m.	FEB	2 23 3	3 10 6	в.	JAN	(30 14 13	30 8 17
30 22 9	MAR	4 11 47	5 1 18	3/53	FEB		28 22 37
	APRIL	3 0 31	3 13 28	March. $d. h. m.$		(1 2 57	
	MAY .	ſ 2 13 15	2 22 57	30 15 36	Mar. O	15 21 19	16 7 32
	0	17 7 37	17 0 38			30 15 41	30 13 47
·	JUNE.	[ 1 1 59	1 6 36		APRIL	29 4 25	29 5 22
		(30 14 43	80 13 34		MAY .	28 17 9	28 20 43
	July.	80 3 27	29 20 54		JUNE.	27 5 53	27 11 14
	Aug.	28 16 11	28 5 36		JULY.	26 18 37	27 0 33
	SEPT	27 4 55	26 16 24		Aug	25 7 21	25 12 44
	Ocr	26 17 89	26 5 48		~ 0	9 1 43	8 12 16
	O NT a sa	10 12 1	10 20 8		SEPT	123 20 5	24 0 7
	Nov Dec	25 6 23	21 21 44		Oct	23 8 49	23 11 7
	DEC	24 19 7	24 15 35		Nov.	21 21 33	21 22 0
937.	JAN	28 7 52	23 10 12		DEC	21 10 17	21 8 51
E.D.	FEB	21 20 86	22 4 9	934.	JAN	19 23 1	19 19 40
30 3 58	Mar	22 9 20	22 20 14	Α.	FEB	18 11 45	18 6 44
	APRIL	20 22 4	21 9 48	00 01 05	Mar.	5 6 7 20 0 30	5 20 5
1	0	5 16 26	5 8 5	30 21 25	APRIL	18 13 14	19 18 29 18 7 18
	MAY.	20 10 48	20 20 46		MAY.	18 1 58	17 21 25
	June .	18 23 32	19 5 47		June .	16 14 42	16 12 37
	JULY.	18 12 16	18 18 50		JULY.	16 3 26	16 4 18
	Aug.	17 1 0	16 21 53		Aug	(14 16 10	14 19 48
	SEPT	15 13 44	15 6 50		0	29 10 32	28 22 3
	Ocr	15 2 28	14 17 14		SEPT	13 4 54	13 10 33
	Nov.	13 15 12	13 5 28	1	Ocr	12 17 38	13 0 19
	DEC	18 8 56	12 19 33		Nov	11 6 22	11 13 0
936.	JAN.	11 16 40	11 11 15		DEC	10 19 6	11 0 38
с.	FEB	10 5 24	10 4 2	933.	JAN	9 7 50	9 11 16
80 9 47	MAR.	(11 18 9	11 21 3	G.F.	FEB	7 20 34	7 21 1
	0	26 12 81	26 14 57	30 3 14	MAR.	8 9 19	8 6 18
	Arnil	10 6 53	10 13 20		APRIL	6 22 3	6 15 46
	MAY .	9 19 37	10 4 4		MAY .	6 10 47	6 2 15
1	June .	8 8 21	8 16 58		June.	4 23 31	4 14 29
1	July.	7 21 5	8 8 58		JULY.	4 12 15	4 4 45
	Aug	6 9 49	6 13 42		Aug.	8 0 59	2 20 47
1	SEPT	4 22 33	4 28 8		0	1 19 21	17 13 24 1 13 52
	Oct	4 11 17	4 8 51		SEPT.	1 13 43	1 6 59
	Nov	3 0 1	2 19 19		Oct	30 15 11	30 23 10
	DEC	2 12 45	2 6 41		Nov.	29 3 55	29 13 49
1		ι	<b>31 1</b> 8 59		DEC.	28 16 89	29 2 30

Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. Tull Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (C Full Ecl.)(	True New Moon.  O Full Ecl.)
B.C. 932.		d. h. m.	d. h. m.	B.C. 929.		d. h. m.	d. h. m.
	JAN. ,	27 5 23	27 13 17	B.A.	JAN.	24 20 33	25 5 16
March.	FEB.	25 18 7	25 22 26	March. $d. h. m.$	FEB	23 9 17	23 21 49
d. h. m. 30 9 2	MAR.	27 6 51	27 6 30	30 2 29	MAR	23 22 1	24 11 26
00 0 2	APRIL	25 19 35	25 14 19		APRIL	22 10 45	22 22 9
	MAY.	25 8 19	24 22 53		MAY .	21 23 29	22 6 36
	June.	23 21 3	23 9 16	İ	June.	20 12 13	20 13 51
1		(8 15 25	8 21 7		JULY.	20 0 57	19 21 0
	O July.	$\begin{cases} 23 & 9 & 47 \end{cases}$	22 22 9		Aug.	18 13 41	18 5 3
1 1	Aug	21 22 31	21 13 44		SEPT.	17 2 25	16 14 52
	SEPT.	20 11 15	20 7 27		Oct.	16 15 9	16 3 0
1	Oct	19 23 59	20 2 9		Nov.	15 3 53	14 17 41
	Nov.	18 12 43	18 20 24		DEC.	14 16 37	14 10 33
	DEC.	18 1 27	18 12 58		DEC, .	22 20 0.	22 20 00
	DEC	10 121	10 12 00		_	40 7 01	40 4 45
1		(1 19 49	1 12 41	928.	JAN	13 5 21	18 4 45
931.	O Jan	16 14 11	17 2 59	G.	FEB.	11 18 5	11 22 59
D.	FEB	15 2 55	15 14 21	30 8 18	MAR.	13 6 50	13 16 1
30 14 51	MAR.	16 15 40	16 23 25		APRIL	§11 19 34	12 6 50
00 11 01	APRIL	15 4 24	15 6 55		0	(26 13 56	26 6 58
	MAY.	14 17 8	14 13 49		MAY.	11 8 18	11 19 4
	JUNE .	(13 5 52	12 21 9		June .	9 21 2	10 5 4
	O O	28 0 14	28 6 49		Jur.	9 9 46	9 13 37
	JULY .	1	12 6 5		Aug	7 22 30	7 21 45
	Aug.	1	10 17 33		SEPT	6 11 14	6 6 21
	SEPT	1	9 8 5		Oct	$\int 5 23 58$	5 16 8
	Oct.		9 1 26		0	120 18 20	20 23 8
1	Nov.		7 20 37		Nov.	4 12 42	4 3 30
	DEC.	7 10 16	7 16 4		DEC.	4 1 26	3 16 35
1	0	$\begin{cases} 22 & 4 & 38 \end{cases}$	22 0 43				
1		(== 100	0 10	927.	JAN	2 14 10	$\int 2 721$
930.	JAN.	5 23 0	6 10 6	F.	FEB	1 2 54	31 23 24
C.	FEB.	4 11 44	5 1 31	30 14 7	MAR	2 15 38	2 16 9
30 20 40	MAR.	6 0 28	6 13 54	1		(1 4 22	1 8 43
	APRIL	1	4 23 29		APRIL	15 22 44	15 22 25
1	MAY	1	4 7 6			30 17 6	1 0 13
1	JUNE		1		MAY .	30 5 50	30 14 4
	0	17 9 2	1		June .	28 18 34	29 2 5
1	1-	(2 3 24			JULY .	28 7 18	28 12 38
	JULY	· \( 31 16 8	ŧ.		A.ug. ,	26 20 2	26 22 25
	Aug.	. 30 4 52	1		SEPT	25 8 46	25 8 10
	SEPT.	. 28 17 36	I .		0	£10 3 8	9 22 57
	Oct.				Ocr	124 21 30	24 18 21
	Nov.	. 26 19 4	1	11	Nov	23 10 14	23 5 21
	DEC.	1	1		DEC	22 22 58	22 17
1	1	,	1	Vi	1		

1							
Monn Vernal	Month.	Mean New Moon.	True New	Mean	3543	Mean New	True New
Equinox.	MOHUI.	(O Full Ecl.)	Moon. (O Full Ecl.)	Vernal Equinox.	Month.	Moon. (O Full Ecl.)	Moon. (O Full Ecl.)
B.C. 926.		d. h. m.	d. h. m.			d. h. m.	d. h. m.
926. E.	T	21 11 42	21 5 38	B.C.	~		
March.	JAN	1		923. A.	Jan	18 2 52	18 12 25
d. h. m.	FEB.	20 0 26	19 19 8	March.	o	\[ \begin{array}{cccccccccccccccccccccccccccccccccccc	1 20 14
80 19 55	MAR	21 13 11	21 9 38	d. h. m.	FEB	(16.15.36	16 22 10
	, 0	5 7 33	5 15 30	30 13 22	MAR.	18 4 21	18 6 31
	APRIL	(20 1 55	20 0 52		APRIL	16 17 5	16 14 10
	MAY.	19 14 39	19 16 20		MAY.	16 5 49	15 22 4
	JUNE.	18 3 23	18 7 25		June.	14 18 33	14 7 20
	JULY.	17 16 7	17 21 33		JULY.	514 7 17	13 18 52
	Aug	16 4 51	16 10 34		0	29 1 39	29 5 25
	SEPT	514 17 35	14 22 35	1	Aug	12 20 1	12 9 12
	0	<b>ξ29 11 57</b>	28 23 55		SEPT	11 8 45	11 2 4
	Ocr	<b>14</b> 6 <b>1</b> 9	<b>14</b> 9 <b>59</b>		Ост	10 21 29	10 20 37
	Nov	12 19 3	12 21 3		Nov	9 10 13	9 15 27
	DEC	12 7 47	12 7 54		DEC	8 22 57	9 9 7
	_						
925.	Jan	10 20 31	10 18 35	922.	Jan	7 11 41	8 0 29
D.C.	FEB	5 9 9 15	9 5 15	G.	Feb	6 0 25	6 13 7
1	0	24 3 37	24 17 23	30 19 11	MAR	7 13 10	7 23 8
( CO 1 44	MAR	9 22 0	9 16 18		APRIL	6 1 54	6 7 10
	APRIL	8 10 44	8 4 16		MAY.	5 14 38	5 14 7
	MAY.	7 28 28	7 17 32		June .	4 3 22	3 21 2
	June .	6 12 12	6 8 9		JULY.	3 16 6	3 5 2
	July.	6 0 56	5 23 44		1	(2 4 50	1 15 11
1	Aug	4 13 40	4 15 86		Aug	(31 17 34	31 4 13
	SEPT	3 2 24	3 7 5		SEPT	30 6 18	29 20 19
	Ocr	2 15 8	2 21 40		Ocr. ,	29 19 2	29 14 50
	Nov	(1 8 52	111 8		Nov	28 7 46	28 10 24
	1404.	<b>(30 16 36</b>	30 23 24		0	(13 2 8	12 23 35
	DEC	30 5 20	30 10 30		DEC	27 20 30	28 5 21
1	_	00.10	20 22 22		_	00 0 11	00 00 0
924.	JAN	28 18 4	28 20 30	921.	Jan	26 9 14	26 22 9
в.	~ 0	(12 12 26	12 20 31	F.E.	FEB	24 21 58	25 11 59
	FEB	27 6 48	27 5 42	30 1 0	Mar	25 10 42	25 22 47
£0 7 33	MAR	28 19 32	28 14 44		APRIL	23 23 26	24 7 10
1	APRIL	27 8 16	27 0 23		MAY.	23 12 10	23 14 12
1	MAY .	26 21 0	26 11 30		_ 0	$\begin{cases} 7 & 6 & 32 \\ 32 & 3 & 54 \end{cases}$	7 5 41
1	JUNE.	25 9 44	25 0 41		June.	122 0 54	21 20 52
	July.	24 22 28	24 15 57		JULY.	21 13 38	21 4 19
	. 0	§ 8 16 50	8 13 18		Aug	20 2 22	19 13 31
	Aug	23 11 12	23 8 49		Sept	18 15 6	18 1 26
-	SEPT	21 23 56	22 2 18		Ocr	18 3 50	17 16 16
1	Oct	21 12 40	21 19 19		Nov.	16 16 31	16 9 44
	Nov	20 · 1 24	20 10 59		0	f 1 10 56	1 15 20
	DEC	19 14 8	20 0 45		Dec	116 5 18	16 4 48
						1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. () Full Ecl.)
B.C. 920.		d. h. m.	d. h. m.	B.C. 917.		d. h. m.	d. h. m.
D.	JAN	14 18 2	14 23 57	A.G.	JAN.:	12 9 12	12 3 28
d. h. m.	FEB	13 6 46	13 17 37	March. $d. h. m.$	FEB	10 21 56	10 16 12
30 6 48	MAR	14 19 31	15 8 40	30 0 15	Mar	§ 11 10 41	11 5 55
	APRIL	13 8 15	13,20 44		. 0	26 5 3	26 15 16
	May .	(12 20 59	13 6 13		APRIL	9 23 25	9 20 33
	0	27 15 21	27 7 17		MAY.	9 12 9	9 11 51
	JUNE.	11 9 43	11 14 1		June.	8 0 53	8 3 13
	July.	10 22 27	10 21 12		July .	7 13 37	7 18 1
ļ	Aug	9 11 11	9 4 49		Aug	6 2 21	6 7 52
	SEPT	7 23 55	7 13 49		Sept	§ 4 15 5	4 20 38
	Ост	7 12 39	7 0 51		0	19 9 27	18 20 6
	Nov	∫ 6 1 23	5 14 17		Ост	4 3 49	4 8 35
	0	20 19 45	21 4 50		Nov	2 16 33	2 20 0
	DEC	5 14 7	5 6 1		DEC	$\int 2 517$	2 7 0
					DEC	₹31 18 1	31 17 41
919.	JAN	4 2 51	3 23 30	916.	JAN	30 6 45	30 4 6
C.	FEB	2 15 35	2 17 42	F.	FEB.	28 19 29	28 14 37
30 12 37	MAR	4 4 20	4 11 18		0	(15 13 51	16 8 85
	APRIL	2 17 4	3 3 11	30 6 4	MAR.	30 8 13	30 1 46
1		2 5 48	2 16 42	00 0 1	APRIL	28 20 57	28 14 6
1	May O	317 0 10	16 15 12		MAY .	28 9 41	28 3 55
1		(31 18 32	(1 3 50		JUNE .	26 22 25	26 19 6
	June .	30 7 16	<b>130 13</b> 9		JULY .	26 11 9	26 11 5
	July.	29 20 0	29 21 31		Aug	24 23 53	25 3 6
	AUG	28 8 44	28 6 2		0	(8 18 15	8 6 9
i	SEPT	26 21 28	26 15 21		SEPT	23 12 37	28 18 28
	Oct	26 10 12	26 1 59		Oct	28 1 21	23 8 46
1	Nov.	24 22 56	24 14 12		Nov	21 14 5	21 21 48
	DEC	24 11 40	24 3 59		DEC	21 2 49	21 9 21
918.	Jan	23 0 24	00 10 10	915.	JAN	19 15 33	19 19 54
В.	FEB.	23 0 24 21 13 8	22 19 12	E.	FEB	18 4 17	18 5 17
30 18 26	MAR.	23 1 52	21 11 24 23 3 56	30 11 52	MAR	19 17 2	19 14 5
00 10 20	APRIL	25 1 32 21 14 36	23 3 56 21 19 57		APRIL	18 5 46	17 23 6
	MAY.	21 14 36	21 19 57		MAY .	17 18 30	17 9 11
	JUNE .	19 16 4	19 23 44		JUNE .	16 7 14	15 21 11
	JULY .	19 4 48	19 11 11		JULY .	15 19 58	15 11 28
	Aug.	17 17 32	17 21 31		Aug	f14 8 42	14 3 45
	SEPT.	16 6 16	16 7 28		0	29 3 4	28 21 33
	Oct.	15 19 0	15 17 36		SEPT	12 21 26	12 21 15
	Nov.	14 7 44	14 4 15		Oct	12 10 10	12 14 58
	DEC.	13 20 28	13 15 32		Nov.	10 22 54	11 7 33
			10 02		DEC	10 11 38	10 22 26
]		1		l	1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 914. D.	~	d. h. m.	d. h. m.	B.C. 911.		d. h. m.	d. h. m.
March.	JAN	9. 0 22	9 11 9	G. March.	JAN	5 15 32	5 18 23
d. h. m.	FEB.	7 13 6	7 21 41	d. h. m.	Feb	4 4 16	4 12 49
30 17 41	MAR	9 1 51	9 6 30	30 11 8	MAR	5 17 1	6 5 10
1	APRIL	7 14 35	7 14 12		APRIL	4 5 45	4 18 40
	MAY .	7 3 19	6 21 42		May .	3 18 29	4 5 22
1	JUNE .	5 16 3	5 6 4		JUNE.	2 7 12	2 13 54
	JULY.	∫ 5 4 47	4 16 18		July.	1 19 55	1 21 20
	. 0	(19 23 9	20 4 35		0011.	(31 8 39	31 4 46
	Aug	3 17 31	3 5 15		Aug	29 21 23	29 13 9
	SEPT	2 6 15	1 21 1		SEPT	28 10 7	27 23 14
	Oct	1 18 59	1 15 2		Ост	27 22 51	27 11 30
		31 7 43	31 10 5		Nov	26 11 35	26 2 4
	Nov	29 20 27	30 4 37		Dec	26 0 19	25 18 37
	DEC	29 9 11	29 21 17				
010		(10 0 00	10.01.1	910.	JAN	24 13 3	24 12 22
913. c.r.	_ O	13 3 33	12 21 1	F.	FEB	23 1 48	23 6 13
	JAN	27 21 55	28 11 16	30 16 57	MAR	24 14 33	24 22 57
20 00 00	FEB	26 10 39	26 22 25		APRIL	23 3 17	23 13 38
29 23 30	MAR	26 23 23	27 7 13		0	∫ 7 21 39	7 14 13
	APRIL	25 12 7	25 14 29		MAY .	22 16 1	23 1 59
	MAY.	25 0 51	24 21 13		June .	21 4 45	21 12 15
	June.	28 18 85	23 4 30		JULY.	20 17 29	20 21 10
	O T	8 7 57	8 14 5		Aug	19 6 13	19 5 45
	JULY.	21 15 3	22 13 29 21 1 5		SEPT	17 18 57	17 14 46
	Aug	20 3 47			Oct	17 7 41	17 0 50
	SEPT	19 16 31	19 15 46 19 9 15		0	∫ 1 2 3	1 7 10
	Oct Nov	18 5 15	19 9 15 18 4 33		Nov	15 20 25	15 12 18
	-	17 17 59	18 0 2		DEC	15 9 9	15 1 11
	DEC	11 11 00	10 0 2				
912.	0	( 1 12 21	1 9 29	909.	JAN	13 21 53	13 15 29
Α.	JAN	16 6 43	16 18 2	E.D.	FEB	12 10 37	12 6 59
	FEB	14 19 27	15 9 19	29 22 45	Mar	12 23 22	12 23 10
80 5 19	MAR	16 8 12	16 21 32		APRIL	∫11 12 6	11 15 23
	APRIL	14 20 56	15 6 59		0	126 6 28	26 5 58
	MAY .	14 9 40	14 14 31		MAY .	11 0 50	11 6 46
	June .	(12 22 24	12 21 15		June .	9 13 34	9 20 48
	0	27 16 46	27 16 41		July.	9 2 18	9 9 12
	JULY.	12 11 8	12 4 14		Aug	7 15 2	7 20 16
	Aug	10 28 52	10 12 35		SEPT	6 3 46	6 6 36
	SEPT	9 12 36	8 23 10		Ocr	∫ 5 16 30	5 16 49
	Ocr	9 1 20	8 12 34		0	20 10 52	20 6 44
	Nov	7 14 4	7 4 48		Nov	4 5 14	4 3 19
	DEC	7 2 48	6 23 10		DEC	3 17 58	3 14 17
	<u> </u>						

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 908. c. March. d. h. m. 30 4 34	Jan Feb Mar	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	d. h. m. 2 1 44 31 13 48 2 2 43	B.C. 905. G.F. March. d. h. m. 29 22 1	Jan  O FEB MAR	d. h. m. 29 10 36 {13 4 58} {27 23 21} 28 12 5	d. h. m. 29 20 53 13 3 42 28 6 22 28 14 20
30 4 54	O APRIL MAY . JUNE . JULY .	\\ \\ 81 \ 20 \ 55 \\ \ \ \ \ 15 \ 15 \ 17 \\ \ 80 \ \ 9 \ 39 \\ 29 \ 22 \ 23 \\ 28 \ 11 \ \ 7 \\ 27 \ 23 \ 51 \\ \end{align*}	31 16 36 15 23 6 30 7 26 29 22 46 28 14 3 28 4 37		APRIL MAY . JUNE . JULY . O Aug	27 0 49 26 13 33 25 2 17 24 15 1 { 8 9 28 23 3 45	26 21 89 26 5 19 24 14 27 24 1 59 8 13 10 22 16 26
	Aug Sept O Oct Nov	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	26 18 12 25 6 50 9 7 54 24 18 43 23 6 2	904.	SEPT OCT Nov DEC	21 16 29 21 5 18 19 17 57 19 6 41 17 19 25	21 9 84 21 4 26 19 23 83 19 17 22 18 8 44
907. B. 30 10 23	DEC JAN FEB MAR APRIL MAY .	22 15 31 21 4 15 19 16 59 21 5 43 19 18 27 19 7 11	22 16 50 21 3 11 19 13 22 20 23 50 19 11 15 19 0 8	E. 30 3 50	FEB MAR APRIL MAY . JUNE .	16 8 9 17 20 53 16 9 37 15 22 21 14 11 5	16 21 12 18 6 59 16 14 47 15 21 85 14 4 25
	JUNE . JULY . AUG SEPT	19 7 11 17 19 55 17 8 39 15 21 23 14 10 7 13 22 51	17 14 38 17 6 24 15 22 41 14 14 45 14 5 55		July . Aug Sept Oct Nov	13 23 49 12 12 33 11 1 17 10 14 1 9 2 45	13 12 27 11 22 48 10 11 54 10 4 8 8 22 45
906.	Nov DEC JAN FEB	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	12 19 49 12 8 15 10 19 13 9 4 54 24 3 48	903. p. 30 9 38	DEC O JAN FEB MAR	8 15 29 23 9 51 7 4 13 5 16 57 7 5 42	8 18 28 23 8 26 7 13 16 6 5 57 7 19 38
30 16 12	MAR APRIL MAY. JUNE. JULY.	10 14 32 9 3 16 8 16 0 7 4 44 6 17 28	10 13 42 8 22 15 8 7 30 6 18 21 6 7 27		APRIL MAY . JUNE . O JULY .	5 18 26 5 7 10 { 3 19 54 { 18 14 16 3 8 38	6 6 19 5 14 38 3 21 39 18 12 8 3 4 25
	Aug O SEPT Oct Nov	$ \begin{cases} 5 & 6 & 12 \\ 20 & 0 & 34 \\ 8 & 18 & 56 \\ 3 & 7 & 40 \\ 1 & 20 & 24 \end{cases} $	4 22 51 19 21 21 3 16 3 3 10 0 2 3 30		Aug Sept Oct Nov	$ \begin{cases} 1 & 21 & 22 \\ 31 & 10 & 6 \\ 29 & 22 & 50 \\ 29 & 11 & 34 \\ 28 & 0 & 18 \end{cases} $	1 12 4 30 21 34 29 9 86 29 0 29 27 17 51
	DEC	$\begin{cases} 1 & 9 & 8 \\ 30 & 21 & 52 \end{cases}$	1 19 31 31 9 22		O Dec	12·18 40 27·13 2	13 0 16 27 12 42

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
				-			
B.C. 902.		d. h. m.	d. h. m.	B.C. 899.		d. h. m.	d. h. m.
March.	JAN	26 1 46	26 7 34	F. March.	JAN	22 16 56	22 11 52
d. h. m.	FEB	24 14 31	25 1 0	d. h. m.	FEB	21 5 40	21 0 2
80 15 27	MAR	26 3 15	26 15 53	30 8 54	MAR	22 18 24	22 13 6
İ	APRIL	24 15 59	25 3 54		0	6 12 46	6 22 52
	MAY .	24 4 43	24 13 28		APRIL	121 7 8	21 3 15
	0	5 7 23 5	7 13 58		MAY.	20 19 52	20 18 18
	June.	(22 17 27	22 21 25		JUNE.	19 8 36	19 9 <b>4</b> 2
	JULY.	22 6 11	22 4 54		JULY.	18 21 20	19 0 53,
	Aug	20 18 55	20 12 52		Aug	17 10 4	17 15 14
	SEPT	<b>1</b> 9 <b>7 3</b> 9	18 22 11		SEPT	$\int 15 \ 22 \ 48$	16 4 38
	Ocr	18 20 23	18 9 24		0	\30 17 10	<b>30 4</b> 6
	Nov	17 9 7	16 22 49		Oct	15 11 32	15 17 8
	0	(2 3 29	2 13 30		Nov	14 0 16	14 4 51
<b>k</b>	DEC	16 21 51	16 14 18		DEC	13 13 0	<b>13</b> 15 56
		1				,	
901.	T	1- 10 0-	4F F 00	898.	JAN	12 1 44	12 2 23
B.A.	JAN	15 10 35	15 7 22	E.	FEB	10 14 28	10 12 24
20 21 16	FEB	13 23 19	14 1 3	30 14 43	MAR	$\int 12 \ 3 \ 13$	11 22 24
25 21 10	MAR	14 12 3	14 18 16		0	126 21 36	27 10 58
	APRIL	13 0 47	13 9 58		APRIL	10 15 57	10 8 59
	MAY .	12 13 31	12 23 31		MAY .	10 4 41	9 20 58
1	, O	(27 7 53	26 22 19		June.	8 17 25	8 10 29
	JUNE.	11 2 15	11 10 52		JULY.	8 6 9	8 1 42
	JULY.	10 14 59	10 20 32		Aug	6 18 53	6 17 59
	Aug.	9 3 43	9 5 24		SEPT	$\int 5 7 37$	5 10 31
	SEPT	7 16 27	7 14 19		0	(20 1 59	19 14 26
	Oct.	7 5 11	7 0 0		Oct	4 20 21	5 2 30
1	Nov.	5 17 55	5 10 49		Nov	3 9 5	3 17 18
	DEC.	5 6 39	4 22 55		DEC	2 21 49	3 6 36
						( 1 10 33	1 18 18
900.	JAN.	8 19 23	3 12 21	897.	JAN	30 23 17	31 .4 28
G.	FEB.	2 8 7	2 3 0	D.C.	FEB	29 12 2	29 13 27
30 3 5	MAR.	3 20 52	3 18 38	90 90 91		30 0 46	29 21 48
	APRIL	2 9 36	2 10 41	29 20 31	MAR.	28 13 30	28 6 23
1		( 1 22 20	2 2 29		APRIL MAY	28 2 14	27 16 9
	MAY .	31 11 4	31 17 17		June.	26 14 58	26 4 0
	JUNE .	29 23 48	30 6 39		JULY.	26 3 42	25 18 18
	JULY.	29 12 32	29 18 35			24 16 26	24 10 51
	Aug.	28 1 16	28 5 29		Aug.	(8 10 48	1
	SEPT.	26 14 0	26 15 56	II	SEPT	23 5 10	
	Ocr.	26 2 44	26 2 27	1		22 17 54	
	Nov.	24 15 28	24 13 13		Nov.		1
	DEC.	24 4 12	24 0 21			20 19 22	
	J. 20				Dec	20 19 22	21 . 0
}	1	1	1	11	1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.  O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. (O Full Ecl.)
B.C. 908. c. March.	JAN Feb	d. h. m. { 2 6 42 } { 31 19 26 }	d. h. m. 2 1 44 31 13 48	B.C. 905. G.F. March.	Jan O Feb	d. h. m. 29 10 36  13 4 58  27 23 21	d. h. m. 29 20 53 13 3 42 28 6 22
d. h. m. 30 4 34	MAR	$ \begin{cases} 2 & 8 & 11 \\ 31 & 20 & 55 \\ (15 & 15 & 17 \end{cases} $	2 2 43 31 16 36 15 23 6	d. h. m. 29 22 1	MAR APRIL MAY.	28 12 5 27 0 49 26 13 33	28 14 20 26 21 39 26 5 19
•	O APRIL MAY.	\begin{cases} 30 & 9 & 39 \\ 29 & 22 & 23 \end{cases}	30 7 26 29 22 46		JUNE . JULY .	25 2 17 24 15 1	24 14 27 24 1 59
	JUNE . JULY . Aug	28 11 7 27 23 51 26 12 35	28 14 3 28 4 37 26 18 12		Aug Sept	$ \begin{cases} 8 & 9 & 23 \\ 23 & 3 & 45 \\ 21 & 16 & 29 \end{cases} $	8 13 10   22 16 26   21 .9 34
	OCT	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	25 6 50 9 7 54 24 18 43		Oct Nov Dec	21 5 13 19 17 57 19 6 41	21 4 26 19 25 33 19 17 22
907.	Nov DEC JAN	23 2 47 22 15 31 21 4 15	23 6 2 22 16 50 21 3 11	904. E.	JAN FEB	17 19 25 16 8 9	18 8 44 16 21 12
в. 30 10 23	FEB MAR APRIL	19 16 59 21 5 43 19 18 27	19 13 22 20 23 50 19 11 15	30 3 50	MAR APRIL MAY.	17 20 53 16 9 37 15 22 21	18 6 59 16 14 47 15 21 35
	MAY . JUNE . JULY .	19 7 11 17 19 55 17 8 89	19 0 8 17 14 38 17 6 24		JUNE. JULY. AUG	14 11 5 13 23 49 12 12 33	14 4 25 13 12 27 11 22 43
	Aug Sept	15 21 23 14 10 7	15 22 41 14 14 45		SEPT OCT Nov	11 1 17 10 14 1 9 2 45	10 11 54 10 4 8 8 22 45
	Nov Dec	13 22 51 12 11 35 12 0 19	14 5 55 12 19 49 12 8 15		DEC	$\begin{cases} 8 \ 15 \ 29 \\ 23 \ 9 \ 51 \end{cases}$	8 18 23 23 8 26
906. A.	JAN FEB	10 13 3	10 19 13 9 4 54 24 3 48	903. D. 30 9 38	JAN FEB MAR	7 4 13 5 16 57 7 5 42	7 13 16 6 5 57 7 19 38
30 16 12	MAR APRIL MAY.	10 14 32 9 3 16 8 16 0	10 13 42 8 22 15 8 7 30		APRIL MAY . JUNE .	5 18 26 5 7 10 5 3 19 54	6 6 19 5 14 38 3 21 39
	JUNE. JULY. Aug.	7 4 44 6 17 28	6 18 21 6 7 27		July.	18 14 16 3 8 38 1 21 22	18 12 8 3 4 25 1 12 4
	SEPT	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	19 21 21 3 16 3		SEPT	31 10 6 29 22 50 29 11 34	30 21 34 29 9 36 29 0 29
·	Nov DEC	1 20 24	2 3 30 1 19 31		Nov O Dec	28 0 18 12 18 40 27 13 2	27 17 51 13 0 16 27 12 42

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
B.C. 896.		d. h. m.	d. h. m.	B.C. 893.		d. h. m.	d. h. m.
March.	JAN	19 8 6	19 19 39	F.E. March.	JAN	16 23 16	17 2 5
d. h. m.	FEB	17 20 50	18 5 57	d. h. m.	FEB	15 12 0	15 20 13
30 2 20	MAR	19 9 34	19 14 25	29 19 47	MAR	16 0 44	16 12 20
	APRIL	17 22 18	17 21 48		APRIL	14 13 28	15 1 45
	MAY .	17 11 2	17 5 2		MAY.	14 2 12	<b>14 12 30</b>
	June .	15 23 46	15 13 14		June .	12 14 56	12 21 13
	JULY.	<b>15 12 3</b> 0	14 23 28		July .	12 3 40	12 4 57
	0	(30 6 52	30 12 7		Aug	10 16 21	10 12 44
	Aug	14 1 14	13 12 28	•	SEPT	9 5 8	8 21 28
	SEPT.	12 13 58	12 4 26		Ост	8 17 52	8 7 48
	Oct	12 2 42	11 22 43		Nov	7 6 26	6 20 8
	Nov	10 15 26	10 18 2		DEC	6 19 20	6 10 32
	DEC	10 4 10	10 12 46				
895.	Jan	(81654	9 5 28	892.	JAN	584	5 2 41
A.	0	23 11 16	23 5 15	D.	FEB	3 20 48	3 19 56
}	FEB	7 5 38	7 19 21	<b>30 1 36</b>	MAR.	5 9 33	5 13 20
30 8 9	MAR	8 18 23	9 6 20		APRIL	3 22 17	4 5 45
	APRIL	7 7 7	7 14 54		MAY .	$\begin{cases} 3 & 11 & 1 \\ 10 & 7 & 00 \end{cases}$	3 20 24
1	MAY .	6 19 51	6 21 58		0	18 5 23	17 21 27 2 8 54
	JUNE .	5 8 33	5 4 38		JUNE .	1 23 45	1 19 29
	JULY .	( 4 21 19	4 11 57		July .	31 1 13	31 4 51
	0	19 15 41	19 21 5		Aug	29 13 57	29 13 54
1	Aug	3 10 3	2 21 3		SEPT.	28 2 41	27 28 20
	SEPT	1 22 47	∫ 1 8 47		Oct.	27 15 25	27 9 39
	Oct	§ 1 11 31	(30 23 36		0	(11 9 47	11 15 15
Ì	-	(31 0 15	30 17 13		Nov.	26 4 9	25 21 8
1	Nov.	29 12 59	29 12 32		DEC	25 16 53	25 9 45
ļ	DEC	29 1 43	29 7 57		}		
	0	(12 20 5	12 18 10	891.	JAN	24 5 37	23 23 34
894.	JAN	27 14 27	28 1 49	c.	FEB	22 18 21	22 14 26
G.	FEB	26 3 11	26 16 58	30 7 24	MAR	24 7 6	24 6 6
30 13 58	MAR	27 15 56	28 4 3		APRIL	22 19 50	22 21 57
1	APRIL	26 <b>4 4</b> 0	26 14 24		0	7 14 12	7 13 28
1	MAY .	25 17 24	25 21 56		MAY .	22 8 34	22 13 18
1	JUNE .	24 6 8	24 4 45		June.	20 21 18	21 3 32
	_ 0	9 0 30	8 23 18		July.	20 10 2	20 16 22
	July.	(23 18 52	23 11 56		Aug.	18 22 46	19 4 0
1	Aug		21 20 32		SEPT	17 11 30	17 14 54
	SEPT.	1	20 7 20		Oct	17 0 14	17 1 84
	Oct.	20 9 4	19 20 50		Nor	15 10 50	31 14 38
	Nov Dec	18 21 48 18 10 32	18 13 1		Nov	15 12 58 15 1 42	15 12 16 14 23 11
	DEC.	10 10 52	18 7 11		DEC.	10 1 42	14 20 11

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	rue New Moon. Fall Ecl.)
B.C. 890. B. March. d. h. m. 30 18 13	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT O Nov DEC	d. h. m.  13 14 26 12 3 10 13 15 54 {12 4 38 {26 23 0 11 17 22 10 6 6 9 18 50 8 7 34 6 20 18 { 6 9 2 {21 3 24 4 21 46 4 10 30	d. h. m.  13 10 19  11 21 52  13 10 9  11 23 28  27 6 35  11 13 57  10 5 13  9 20 42  8 11 45  7 1 57  6 15 11  20 15 50  5 3 29  4 14 57	B.C. 887. E. March. d. h. m. 30 6 39	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	d. h. m. 10 17 52 9 5 14 23 11 2 10 14 28 8 22 2 8 5 5 6 12 35 5 21 40 4 9 14 19 21 2 2 23 50 2 17 11 1 12 19 1 7 46 31 1 30
889. A.G. 29 19 2	JAN FED MAR APRIL MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	1 11 58 { 2 0 48 { 31 18 27 80 2 11 2 2 14 55 28 8 89 27 16 28 26 5 7 24 17 51 21 6 85	3 1 30 1 11 40 1 21 21 31 7 17 20 18 13 20 6 47 27 21 12 27 13 9 26 5 54 24 22 31 24 14 15 23 4 30 22 17 2	88G. D. 30 12 28	JAN. FEB. MAR. APRIL MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	29	29 16 49 28 5 7 29 14 43 27 22 19 27 5 1 25 11 53 24 20 1 28 6 25 21 19 46 21 12 7 20 6 45 20 2 18
888. F.	JAN. FEB. O MAR. APRU MAY JUNE JULY AUG. O SEPT. OCT. NOV. DEC.	$ \begin{cases} 6 & 3 & 53 \\ 20 & 22 & 16 \\ 19 & 11 & 0 \\ 18 & 23 & 44 \\ 17 & 12 & 28 \\ 17 & 1 & 15 \\ 15 & 13 & 5 \\ 30 & 8 & 1 \\ 14 & 2 & 46 \\ 13 & 15 & 2 \\ 12 & 4 & 5 \\ \end{cases} $	19 13 13 6 10 55 20 21 35 19 5 42 1 18 14 36 3 17 1 15 2 16 14 17 6 15 5 53 8 30 5 32 0 13 23 25 4 13 17 50 8 12 11 43		O JAN. FEB. MAR. APRIL MAY JUNE JULY AUG. SEPT. OCT. Nov. DEC.	16 2 9 15 14 53 14 8 37 18 16 21 12 5 5 10 17 49 10 6 33 8 8 9 17	1

	New Mean Vernal Lil Ecl.) Equinox.	Month.	Mean Now Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
004,	h. m. В.С. 881.	,	d. h. m.	d. h. m.
March. JAN 6 20 45 6 5	20 31 E.D. March.	JAN	4 11 55	495
d. h. m. Feb 5 9 29 5	15 1 $d. h. m.$	FEB. :	3 0 39	2 20 9
30 0 6 Mar. 6 22 14 7	8 10   29 17 32	MAR	3 13 24	3 7 44
APRIL   5.10 58   5 5	22 55	APRIL	(2 2 8	1 20 13
	10 57	0	16 20 30	17 6 23
1 1 12 1	20 39    .	MAY .	( 1 14 52	1 9 55
0 (18 6 48 17 9	20 42	MAY.	(81 S 36	31 0 44
July . 3 1 10 3	4 53	June .	29 16 20	29 16 15
A TIG. 12	12 42	JULY.	29 5 4	29 7 46
(31 2 38 30 5	21 3	Aug	27 17 48	27 22 44
Sept. 29 15 22 29	6 40	SEPT	26 6 32	26 12 46
Ост   29 4 6 28 1	18 3	0	(11 0 54	10 12 15
Nov   27 16 50   27	7 22	Ocr	125 19 16	26 <b>1</b> 46
	22 7	Nov	24 8 0	24 13 46
Drc 27 5 34 26 9	22 32	DEC	23 20 44	24 0 51
	880.	JAN	22 9 28	22 11 2
883. Jan. 25 18 18 25 1	15 6 c.	Feb	20 22 12	20 20 36
T.E.D 24 / 2 24	8 17   29 23 21	MAR	22 10 57	22 6 3
20 5 55 Mar. 25 19 47 26	1 8	0	6 5 19	6 1S 9
	16 41	APRIL	20 23 41	20 16 8
May .   23 21 15   24	6 18	MAY .	20 12 25	20 3 40
0 \ 7 15 87 7	5 27	JUNE .	19 1 9	18 17 4
1 - 1	17 56	JULY.	18 13 53	18 8 22
July . 21 22 48 22	4 2	Aug	17 2 37	17 1 0
	13 22	SEPT	(15 15 21	15 18 5
	22 46	0	(30 9 43	29 22 51
37	8 46	Ocr	15 4 5	15 10 37
	19 41	Nov	13 16 49	14 <b>1</b> 52
DEC 16 14 23 16	7 30	Dec	13 5 83	13 15 22
882. JAN 15 3 7 14 5	20 39 879.	Jan	11 18 17	12 8 0
1 12 12 1	10 43 B.	Feb	10 7 1	10 12 54
30 11 44 MAR. 15 4 35 15	1 45   30 5 10	MAR	11 19 45	11 21 28
APRIL 13 17 19 13	17 22	APRIL	10 8 29	10 5 23
MAY . 13 6 3 13	8 57	MAY .	9 21 13	9 13 36
June . 11 18 47 11 9	23 52	JUNE .	8 9 57	7 23 9
	13 35	July.	7 22 41	7 10 53
Aug. 9 20 15 10	2 3	Aug	6 11 25	6 1 16
	13 32	SEPT	5 5 0 9	4 18 5
Ост 7 21 43 8	0 30	0	(19 18 31	19 14 18
	11 21	Oct	4 12 53	4 12 25
DEC 5 23 11 5	22 11	Nov	3 1 37	3 6 56
		DEC	2 14 21	3 0 17

Mean Vernal Equinox,	Month.	Mean New Moon. () Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ect.)((	True New Moon.  Full Ecl.)
B.C.		d. h. m.	d. h. m.	B.C. 875.	Τ	d. h. m.	d. h. m. 27 9 38
878. A.	Jan	$ \begin{bmatrix} 1 & 3 & 5 \\ 80 & 15 & 49 \end{bmatrix} $	1 15 27 31 4 0	March. $d. h. m.$	JAN Feb	27 6 59 25 19 43	26 3 26
March.	FEB		•••	30 4 25	MAR.	27 8 28	27 19 23
d. h. m. 30 10 59	MAR.	1 4 34	1 14 5		APRIL	25 21 12 25 9 56	26 8 45 25 19 36
00 10 00		30 17 18	30 22 14   29 5 20		MAY . June .	23 22 40	24 4 34
	APRIL	29 6 2 28 <b>1</b> 8 <b>4</b> 6	28 12 24		JULY.	23 11 24	23 12 33
	MAY .	27 7 30	26 20 30		Aug.	22 0 8	21 20 49
	JUNE .	26 20 14	26 6 45		SEPT	20 12 52	20 5 54
	Aug.	25 8 58	24 19 53		Ocr	20 1 36	19 16 28
	SEPT.	23 21 42	23 12 2		Nov	18 14 20	18 4 48
1	Ост.	23 10 26	23 6 33		DEC	18 8 4	17 18 57
	Nov.	21 23 10	22 2 2				
	DEC	21 11 54	21 20 52	874.	JAN	16 15 48	16 10 39
077	JAN	20 0 33	20 13 52	c.	FEB	15 4 32	15 3 22
877.	JAN.	(3 19 0	3 13 21	30 10 <b>1</b> 4	MAR	16 17 16	16 20 17
	FEB	18 13 22	19 3 17		APRIL	15 6 0	15 12 26
29 16 48	MAR.	19 2 7	19 14 5		MAY .	(14 18 44	15 3 4
20 20 20	APRIL	17 14 51	17 22 28		_ 0	29 13 6	29 4 41 13 15 46
	MAY .	17 3 35	17 5 26		June .	40.00.40	13 2 46
	JUNE .	15 16 19	15 12 5		JULY .		11 12 38
	JULY.	(15 5 3	14 19 31		Aug.	0.01.40	9 22 9
	0	29 23 25	30 4 10		SEPT.	9 10 24	9 8 0
	Aug	13 17 47	13 4 45	}	Nov.		7 18 33
	SEPT	12 6 31	11 16 39		0	$\begin{cases} 22 & 17 & 30 \end{cases}$	22 23 19
	Oct	11 19 15	11 7 36		DEC.	7 11 52	7 5 57
	Nov.	10 7 59	10 1 15				
1	DEC.	9 20 43	9 20 30	873.	JAN.	6 0 36	5 18 15
876.	JAN.	.   § 8 9 27	8 15 46	В.А.	FEB.		4 7 31
E.	0	23 3 49	23 2 45	29 16 3	1 .		4 21 48
	FEB.	6 22 11	7 9 27		APRIL		3 12 55
29 22 37	MAR.		9 0 27 7 12 24		MAY	. 3 3 33	1
	APRIL		7 12 24 6 21 43		0	17 21 55	1
	MAY		5 5 19		June		1 19 46
	JUNE				July	$\int 1 \ 5 \ 1$	
	JULY	19 8 18			1.	(50 17 40	
	Aug.		1		Aug.	0 40 40	
}	SEPT.		(1 4 38	11	SEPT.	27 19 13	1
		(14 8	1100 15 99	1	Oct.	11 2 19	1
1	Oct.	30 16 47	30 5 13		Nov.	K	1
	Nov.	. 29 5 31			DEC.	25 9 25	1
	DEC.	. 28 18 15	28 15 7		JJEC.	. 20 0 20	
1	1	1	l	II			

Mean Vernal Equinox.	Month.	Mean New Moon. (○ Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 872. G. March. d. h. m. 29 21 52	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT	d. h. m.  23 22 9  22 10 53  23 23 38  22 12 22  7 6 44  22 1 6  20 13 50  20 2 34  18 15 18  17 4 2  16 16 46  31 11 8	d. h. m.  23 18 48  22 5 48  23 17 30  22 6 19  7 13 59  21 20 27  20 11 42  20 3 27  18 19 0  17 9 50  16 23 37  81 0 13	B.C. 869. D.C. March. d. h. m. 29 15 18	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT	d. h. m. 21 13 19 20 2 3 5 20 25 20 14 48 19 3 32 18 16 16 17 5 0 16 17 44 515 6 28 30 0 50 13 19 12 13 7 56	d. h. m.  22 2 14  20 13 23  5 18 14  20 22 16  19 5 39  18 12 30  16 19 55  16 4 59  14 16 40  30 5 0  13 7 25  13 0 57
871. F. 80 8 41	Nov DEC  JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	15 5 80 14 18 14 13 6 58 11 19 42 13 8 26 11 21 10 11 9 54 9 22 33 9 11 22 8 0 6 6 12 50 6 1 34 4 14 18 4 3 2	15 12 18 14·23 58 13 10 24 11 20 2 13 5 12 11 14 37 11 1 9 9 13 27 9 3 50 7 20 0 6 13 13 6 6 24 4 22 33 4 13 10	868. B. 29 21 7	Nov DEC  JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	9 22 8 8 10 52 23 5 14 9 28 36 8 12 20 8 1 4 6 13 48 6 2 32 4 15 16 3 4 0 2 16 44 1 5 28 80 18 12	11 20 15 11 15 39 10 9 32 9 0 45 22 23 35 10 12 53 8 22 17 8 5 47 6 12 28 5 19 24 4 3 42 2 14 16 { 2 3 46 81 20 10 30 14 46
870. E. 30 9 30	JAN FEB MAR O	2 15 46 1 4 30 2 17 15 17 11 37 1 5 59 80 18 43 30 7 27 28 20 11 28 8 55 26 21 39 10 16 1 25 10 23 24 23 7 23 11 51 28 0 35	3 1 45 1 12 22 2 21 21 17 17 54 1 5 18 30 13 5 29 21 42 28 8 12 27 21 16 26 13 2 10 13 50 25 6 55 25 1 42 23 19 57 23 12 22	867. A. 30 2 56	O JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	30 6 56  {14 1 18 28 19 40 27 8 24 28 21 9 27 9 53 26 22 37 25 11 21 25 0 5 23 12 49 22 1 33 21 14 17 20 3 1 19 15 45	80 10 8  14 1 58 29 4 41 27 21 2 29 10 26 27 20 58 27 5 19 25 12 84 24 19 48 28 8 59 21 18 59 21 2 19 19 17 9 19 10 5

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.) (	True New Moon. O Fuli Ecl.)
P.C		d. h. m.	d. h. m.	B.C. 863.		d. h. m.	d. h. m.
B.C. 866.	0	(310 7	3 17 55	C. 7	JAN	14 19 39	14 17 45
G.	JAN	(18 4 29	18 4 14	March. $d$ . $h$ . $m$ .	FEB	13 8 23	13 4 19
March.	FEB	16 17 13	16 22 23	30 2 11	MAR	14 21 8	14 15 19
d. h. m. 30 8 45	MAR	18 5 58	18 15 14	,	APRIL	(13 9 52	13 3 15
	APRIL	16 18 42	17 5 50		Ο.	28 4 14	28 13 47
	MAY .	16 7 26	16 17 57		MAY .	12 22 36	12 16 32
'	JUNE.	(14 20 10	15 3 52		June .	11 11 20	11 7 12
	0	29 14 32	29 3 30		JULY .	11 0 4	10 22 52
	July.	14 8 54	14 12 26		Aug	9 12 48	9 14 50
	Aug	12 21 33	12 20 38		SEPT	8 1 32	8 6 22
	SEPT	11 10 22	11 5 22		Oct	7.14 16	7 21 0
	Ocr	10 23 6	10 15 18		0	22 8 38	21 20 32
	Nov.	9 11 50	9 2 48		Nov	6 3 0	6 10 27
	DEC	( 9 0 31	8 15 58		DEC	5 15 44	5 22 41
	0	23 18 56	24 6 40	862.	JAN	4 4 28	4 9 40
				В.	FEB.	2 17 12	2 19 33
865.	JAN	7 13 18	7 6 43	30 8 0	MAR.	4 5 56	4 4 39
F.E.	FEB	6 2 2	5 22 45	50 0 0	APRIL	2 18 40	2 13 37
29 14 31	MAR.	6 14 46	6 15 25		0	17 13 2	18 1 14
	APRIL	5 3 30	5 7 52	li		(2 7 24	1 23 14
Ì	MAY .	4 16 14	4 23 16	11	MAY .	31 20 8	31 10 26
1	JUNE .	(3 4 58	3 13 2	1	JUNE .	30 8 52	29 23 44
	0	17 23 20	17 12 39		JULY.	29 21 36	29 15 10
	July .	2 17 42	3 1 1		Aug	28 10 20	28 8 9
	A	r 1 6 26	1 11 35		SEPT	26 23 4	27 1 43
	Aug.	·  { 80 19 10	30 21 26		0	(11 17 26	11 7 24
	SEPT.	. 29 7 54	29 7 17		Oct	26 11 48	26 18 46
	Oct.	. 28 20 38			Nov.	25 0 32	25 10 24
1	Nov.	. 27 9 23	1		DEC	24 13 16	25 0 3
9	DEC.	. 26 22 6	26 16 21	861.	JAN.	23 2 0	23 11 33
1			1	A.G.	FEB.	21 14 44	1
864.	JAN.	. 25 10 50	25 4 53	29 13 49	1		
ъ.	FEB.	. 23 23 39	23 18 20	20 10 10	0	( 5 21 51	1
29 20 28	MAR.	. 25 12 19	25 8 47		APRIL	Books	
	APRII	24 1	3 23 23 58		MAY	1	1
	MAY	. 23 13 4	7 23 15 24		JUNE	10 17 11	18 6 12
	June	. 22 2 3	1 22 6 23		JULY	1	17 17 55
	July	. 21 15 1	1		Aug.	1 -0 -0 -0	
	Aug.	. 20 3 5			SEPT.	1	1
4	SEPT.	. 18 16 4			0	30 2 1	5 29 22 54
1	Ocr.	. 18 5 2		11	Ocr.	. 14 20 37	1
1	Nov.	. 16 18 1		11	Nov.	. 13 9 2	
	DEC.	. 16 6 5	5 16 7 8	·	DEC.	. 12 22	13 8 36
1							1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov		d. h. m.  11 28 48 10 12 18 11 22 1 10 5 55 9 12 49 7 19 45 7 3 51 5 14 10 4 3 26 3 19 46 2 14 25 2 10 0	B.C. 857. C.B. March. d. h. m. 29 13 4	JAN  O FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT	d. h. m.  \[ \begin{array}{cccccccccccccccccccccccccccccccccccc	(O Full Ecl.)  d. h. m. 8 23 1 24 3 26 7 17 7 8 10 33 7 2 16 6 15 37 5 2 39 4 11 57 2 20 25 1 5 0 30 14 27 30 1 14
859. E. 30 1 27	JAN  O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC	\[ \begin{array}{c c c c c c c c c c c c c c c c c c c	$\begin{array}{c} \cdots \\ 1 & 4 & 50 \\ 30 & 21 & 27 \\ 13 & 21 & 25 \\ 1 & 11 & 4 \\ 30 & 21 & 41 \\ 29 & 5 & 57 \\ 28 & 12 & 53 \\ 26 & 19 & 36 \\ 26 & 3 & 10 \\ 10 & 11 & 20 \\ 24 & 12 & 36 \\ 23 & 0 & 41 \\ 22 & 15 & 42 \\ 21 & 9 & 18 \\ \end{array}$	856. A. 29 18 58	Nov Dec  Jan Feb Mar April May . O June . July . Aug Sept Oct Nov	28 22 3 28 10 47 26 28 31 25 12 15 27 1 0 25 13 44 25 2 28 ( 8 20 50 ( 23 15 12 23 3 56 21 16 40 20 5 24 19 18 8 18 6 52 ( 3 1 14	28 18 32 28 3 20 26 18 81 25 10 40 27 3 7 25 19 3 25 9 41 8 11 58 23 22 41 23 10 8 21 20 31 20 6 83 19 16 47 18 3 30 3 7 24
858. D. 30 7 16	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT Oor Nov DEC	19 17 10 { 3 11 32 18 5 54 19 18 39 18 7 23 17 20 7 16 8 51 {15 21 85 30 15 57 14 10 19 12 23 8 12 11 47 11 0 81 10 18 15	21 4 24 19 28 23 3 11 12 18 16 55 20 7 45 18 19 38 18 4 59 16 12 44 15 19 56 30 12 45 14 3 48 12 12 52 12 0 6 10 13 40 10 5 31	855. G. 3O 0 42	DEC  JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov O DEC	16 8 20 14 21 4 16 9 49 14 22 33 {14 11 17 29 5 39 13 0 1 12 12 45 11 1 29 9 14 18 9 2 57 { 7 15 41 22 10 8 7 4 25	17 14 48  16 2 42  14 15 24  16 5 3  14 19 39  14 10 54  29 4 22  13 2 16  12 17 5  11 6 58  9 19 48  7 19 14  22 6 33  7 6 14

Mean Vernal Equinox.	Month.	Mean New Moon. (O Fuli Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
B.C. 854.		d. h. m.	d. h. m.			d. h. m.	d. h. m.
F.	JAN	5 17 9	5 16 51	B.C.	Jan	§ 2 8 19	2 20 40
March. $d. h. m.$	FEB	4 5 53	4 3 12	851. в.	JAM	\31 2 <b>1</b> 3	•••
30 6 31	MAR	5 18 37	5 13 38	March.	Feb	•••	1 10 27
	APRIL	4 7 21	4 0 44	d. $h.$ $m.$	35 ~	2 9 47	2 21 24
	MAY .	(3205	3 13 5	29 23 57	Mar.O	17 4 9 31 22 31	17 1 20
	0	18 14 27	18 21 21			,	1 6 2
	June .	2 8 49	2 2 57		APRIL	30 11 15	30 13 11
	Υ	f 1 21 33	1 18 14		MAY.	29 23 59	29 19 54
	JULY.	(81 10 17	31 10 17		JUNE.	28 12 43	28 3 17
	Aug	29 23 1	30 2 21		JULY.	28 1 27	27 12 25
	SEPT	28 11 45	28 17 48		Aug	26 14 11	26 0 13
	Ocr	28 0 29	28 8 7		0.	∫10 8 33	10 13 6
	0	∫11 18 51	11 8 30		SEPT	25 2 55	24 15 7
	Nov	$(26\ 13\ 13)$	26 21 8		Ост	24 15 39	24 8 49
	DEC	26 1 57	26 8 44		Nov	23 4 23	23 4 12
					DEC	22 17 7	22 23 37
853.	JAN	24 14 41	24 19 1	850.	JAN	21 5 51	21 17 26
E.D.	FEB.	23 3 25	23 4 15	Δ.	FEB.	19 18 35	20 8 31
29 12 20	MAR.	23 16 10	23 12 58		0	( 6 12 57	6 7 14
	APRIL	22 4 54	21 21 56	30 5 46	MAR	21 7 20	21 20 31
	MAY .	21 17 38	21 8 4		APRIL	19 20 4	20 5 46
	JUNE .	20 6 22	19 20 10		MAY .	19 8 48	19 13 13
	JULY.	19 19 6	19 10 36		June.	17 21 32	17 19 56
	Aug	18 7 50	18 3 2		JULY.	17 10 16	17 3 2
	SEPT	16 20 34	16 20 40		Aug	15 23 0	15 11 32
	Oct	16 9 18	16 14 22		SEPT	14 11 44	13 22 19
	Nov.	14 22 2	15 7 0		Oct	14 0 28	13 11 56
	DEC.	14 10 46	14 21 48		Nov	12 13 12	12 <b>4</b> 19
					Dec	12 1 56	<b>11 22 4</b> 6
852.	JAN	12 23 30	13 10 20	849.	JAN	(10 14 40	10 17 55
c.	FEB.	11 12 14	11 20 44	G.F.	JAN.	25 9 2	25 10 34
29 18 9	MAR	(13 0 59	13 5 23		FEB	9 3 24	9 12 12
	0	27 19 21	28 0 44	29 11 35	MAR.	9 16 9	10 4 21
	APRIL	11 13 43	11 12 59	29 11 00	APRIL	8 4 53	8 17 39
	MAY.	11 2 27	10 20 26	į	MAY.	7 17 37	8 4 10
	JUNE .	9 15 11	9 4 52		JUNE.	6 6 21	6 12 40
	JULY.	9 3 55	8 15 16		JULY.	5 19 5	5 20 7
	Aug.	7 16 39	7 4 24		Aug.	4 7 49	4 3 39
	SEPT	6 5 23	5 20 21		SEPT.	2 20 33	2 12 11
	0	20 23 45	20 22 18			2 9 17	1 22 26
	Oct	5 18 7	5 14 33		Oct	31 22 1	31 10 52
	Nov	4 6 51	4 9 40		Nov.	30 10 45	80 1 88
	DEC	3 19 35	4 4 9		DEC.	29 23 29	29 18 9
						1	

ĸ

Mean Vernal	Month.	Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.	9	(O Full Ecl.)	Full Ecl.)	Equinox.		(O Fuil Ecl.)	(O Eun Een.)
B.C.		d. h. m.	d. h. m.	B.C. 845.		d. h. m.	d. h. m.
848.	0	∫13 17 51	14 2 34	B.A. March.	Jan	26 3 22	26 2 17
E. March.	JAN	<b>\28 12 13</b>	28 11 51	d. $h.$ $m.$	FEB	<b>24 1</b> 6 6	24 12 22
d. h. m.	FEB	27 0 57	27 5 34	29 10 50	MAR	25 4 51	24 22 47
29 17 24	MAR	28 13 41	28 22 7		APRIL	<b>23 1</b> 7 35	28 10 12
	APRIL	27 2 25	27 12 40		0	S 11 57	8 21 6
	MAY .	26 15 9	27 0 53		MAY .	(28 6 19	22 23 8
	JUNE .	25 3 53	25 11 4		June .	21 19 3	21 13 43
	0	9 22 15	9 10 24		JULY.	21 7 47	21 5 34
	July .	24 16 37	24 20 2		Aug	19 20 31	19 21 57
	Aug	23 5 21	23 4 41		SEPT	18 9 15	18 14 4
	SEPT	21 18 5	21 13 51		Oct	17 21 59	18 5 17
	Ост	21 6 49	21 0 3		0	ſ 1 16 21	1 4 54
	Nov	19 19 33	19 11 36		Nov	16 10 48	16 19 9
	DEC	19 8 17	19 0 32		DEC	15 23 27	16 7 80
		6.0.00	0.10.00	844.	JAN	14 12 11	14 18 22
047	-0	$\begin{bmatrix} 3 & 2 & 39 \\ 47 & 21 & 1 \end{bmatrix}$	3 13 33	G.	FEB	18 0 55	13 3 55
847.	JAN	17 21 1	17 14 49	29 16 39	MAR	14 13 40	14 12 86
29 23 13	FEB	16 9 45	16 6 16		APRIL	$\int 13 \ 2 \ 24$	12 21 5
29 25 15	MAR	17 22 30	17 22 24		0	27 20 46	28 8 12
	APRIL	16 11 14	16 14 30		MAY .	12 15 8	12 6 21
}	MAY .	15 23 58	16 5 50		JUNE .	11 3 52	10 17 16
	JUNE .	14 12 42	14 19 46		July .	10 16 36	10 6 31
1	O T	(29 7 4	28 19 55		Aug	9 5 20	8 22 6
	JULY .	14 1 26	14 8 9		SEPT	7 18 4	7 15 26
	SEPT.	12 14 10 11 2 54	12 19 15 11 5 40		Oct	$\int 7 648$	7 9 9
	Oct.	10 15 38	10 15 58		0	(22 1 10	21 16 5
4	Nov.	9 4 22			Nov.	5 19 32	6 2 59
	DEC.	8 17 6	9 2 33 8 13 31	l	DEC	5 8 16	5 18 56
	DEC	01.0	0 10 01	843.	JAN	3 21 0	4 8 38
	<b>.</b>			F.	FEB	2 9 44	2 19 59
846.	JAN		7 0 58	29 22 28	MAR	3 22 28	4 5 16
1	FEB.	5 18 34	5 12 59		APRIL	( 2 11 12	2 18 7
30 5 2			7 1 49		0	17534	17 11 59
	APRIL	5 20 2	5 15 41		20	1 23 56	1 20 22
	MAY .	1	5 6 29		MAY .	31 12 40	31 4 4
	JUNE .		3 21 51		JUNE .	30 1 24	29 13 18
	JULY .		3 13 6		JULY .	29 14 8	29 1 2
	Aug.	$\left.\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Aug.	. 28 2 52	27 15 41
	SEPT.	1 7	1		SEPT.	. 26 15 36	3 26 9 <b>1</b>
	OCT.	. 29 13 10			0	ſ11 9 58	8 11 7 35
	Nov.	1	1		Ост.	$\frac{1}{26}$ 4 2	0 26 4 O
	DEC.	. 28 1 34		1	Nov.	. 24 17	1 24 23 7
	DEC.	. 41 14 50	21 10 0		DEC.	. 24 5 48	3 24 16 49
						1	1

Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon.  O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
B.C. 842. E. March. d. h. m. 80 4 17	Jan Feb Mar April May . June . July . Aug	d. h. m.  22 18 32 21 7 16 22 20 1 21 8 45 20 21 29 19 10 13 18 22 57 17 11 41 16 0 25	d. h. m. 28 8 0 21 20 15 28 5 51 21 13 31 20 20 15 19 3 9 18 11 19 16 21 45 15 11 11	B.C. 839. A. March. d. h. m. 29 21 43	JAN  O FEB  MAR  APRIL  MAY .  JUNE .  JULY .	d. h. m.  19 9 42  { 3 4 4  { 17 22 26  19 11 11  17 23 55  17 12 39  16 1 23  { 15 14 7  30 8 29	d. h. m.  19 6 48  3 11 53  18 0 24  19 17 30  18 9 2  17 22 27  16 9 44  15 19 23  29 20 49
* 841.	OCT Nov DEC	15 13 9 14 1 53 13 14 37	15 3 37 13 22 23 13 17 59		AUG SEPT OCT Nov DEC	14 2 51 12 15 35 12 4 19 10 17 8 10 5 47	14 4 19 12 13 21 11 23 10 10 10 4 9 22 15
D.C. 29 10 6	FEB O MAR	$ \begin{cases} 10 & 16 & 5 \\ 25 & 10 & 27 \\ 11 & 4 & 50 \end{cases} $	11 5 13 25 5 20 11 18 41	838. G. 30 3 32	JAN FEB MAR	8 18 31 7 7 15 8 20 0	8 11 41 7 2 18 8 17 52
	APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV	9 17 34 9 6 18 7 19 2 7 7 46 { 5 20 30 20 14 52 4 9 14 3 21 58 2 10 42 { 1 23 26 31 12 10	10 7 9 9 13 22 7 20 19 7 3 10 5 10 58 20 18 37 3 20 38 3 8 53 1 23 56 1 17 25 31 12 16		APRIL MAY .  JUNE .  O JULY .  AUG  SEPT  OCT  Nov  O DEC	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	7 9 50 7 1 33 5 16 18 19 19 18 5 5 38 8 17 34 2 4 32 1 15 6 31 1 40 29 12 28 14 15 26 28 23 34
840. B.	JAN O FEB	$ \begin{cases} 30 & 0.54 \\ 13 & 19.16 \\ 28.13 & 38 \end{cases} $	30 7 1 13 19 32 1 0 14	837. F.E. 29 9 21	Jan Feb Mar	27 16 4 26 4 48 26 17 32	27 11 8 25 28 8 26 12 11
29 15 54	MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT Nov DEC	30 2 22 28 15 6 28 3 50 26 16 34 26 5 18 9 23 40 24 18 2 23 6 46 22 19 30 21 8 14 20 20 58	30 14 54 29 2 45 28 12 12 26 20 10 26 3 41 9 19 39 24 11 48 22 21 17 22 8 40 20 22 12 20 13 46		APRIL MAY .  O JUNE . JULY . AUG SEPT OCT NOV  O DEC	25 6 16 24 19 0 8 18 22 23 7 44 22 20 28 21 9 12 19 21 56 19 10 40 17 23 24 8 2 17 46 17 12 8	

							- 1.07 1 0 100000000000000000000000000000
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 836. b. March. d. h. m. 29 15 10	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV O DEC	d. h. m.  16 0 52  14 18 86  16 2 21  14 15 5  {14 3 49  28 22 11  12 16 88  12 5 17  10 18 1  9 6 45  8 19 29  { 7 8 18  22 2 35  6 20 57	d. h. m. 16 1 82 14 11 27 15 21 21 14 7 55 18 19 51 29 4 41 12 9 81 12 0 50 10 17 14 9 9 51 9 1 52 7 16 41 21 16 52 7 5 56	B.C. 833. A.G. March. d. h. m. 29 8 86	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT NOV DEC	d. h. m.  18 16 2 12 4 46 {12 17 81 27 11 58 11 6 15 10 18 59 9 7 48 8 20 27 7 9 11 { 5 21 55 20 16 17 5 10 89 8 28 28 8 12 7	d. h. m.  14 4 51  12 18 80  18 5 16  27 8 19  11 18 41  10 20 41  9 8 20  8 10 45  6 20 1  5 7 58  20 21 19  4 28, 1  8 16 48  8 12 10
835. o. 29 20 59	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	5 9 41 8 22 25 5 11 10 8 28 54 8 12 88 2 1 22 (1 14 6 81 2 50 29 15 34 28 4 18 27 17 2 26 5 46 25 18 80	5 17 80 4 8 31 5 12 22 8 20 37 8 5 11 1 15 1 1 3 0 80 17 29 29 10 11 28 4 15 27 22 25 26 15 24 26 6 20	832. r. 29 14 25	JAN FEB MAR O O JUNE JULY AUG O OCT Nov	2 0 51 81 18 85  2 2 19 16 20 41 81 15 8 80 8 47 29 16 81 28 5 15 27 17 59 26 6 48 {10 1 5 24 19 27 24 8 11 22 20 55	2 7 80  1 1 11 2 16 6 16 14 48 { 1 8 58 80 18 9 29 20 86 28 8 27 27 10 45 25 19 81 10 5 59 24 6 81 28 20 18 22 12 81
834. B. 30 2 47	JAN. FEB. MAR. O APRIL MAY JUNE JULY AUG. SEPT. O OCT. NOV. DEC.	\begin{cases} 8 & 3 & 4 \\ 22 & 21 & 26 \\ 22 & 10 & 10 \\ 20 & 22 & 54 \\ 20 & 11 & 38 \\ 19 & 0 & 22 \\ 17 & 18 & 6 \\ 2 & 7 & 28 \\ 17 & 1 & 50 \\ 15 & 14 & 84 \end{cases}	17 8 49 2 6 52 16 22 16 15 17 38		DEC  JAN  OFEB  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  SEPT  OCT  Nov  DEC	17 14 4 17 2 48 15 15 82 14 4 16 18 17 0 12 5 44	15 11 88 18 20 81 18 7 1 11 19 28

1		1	11				
Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl )(	True New Moon.  Tull Ecl.)
B.C.		d. h. m.	d. h. m.	B.C. 827.		d. h. m.	d. h. m.
830.	JAN	(10 7 12	10 2 7	G. Marah	JAN	6 22 22	7 0 50
D.	0	25 1 34	25 11 7	d. $h$ . $m$ .	FEB	5 11 6	5 10 44
d. $h.$ $m.$	FEB	8 19 56	8 19 20	29 19 29	MAR	6 23 51	6 20 19
80 2 3	MAR	10 8 41	10 12 36		APRIL	5 12 35	5 6 11
	APRIL	8 21 25	9 4 53		MAY .	5 1 19	4 17 8
	MAY .	8 10 9	8 19 23		0	19 19 41	20 4 22
	June .	6 22 53	7 7 48		JUNE .	3 14 3	3 5 46
	July .	( 6 11 37	6 18 21		JULY.	3 2 47	2 20 19
	0	21 5 59	20 17 26		A	1 15 31	1 12 22
k	Aug	5 0 21	5 3 46		Aug	31 4 15	31 5 13
	SEPT	3 13 5	3 12 53		SEPT	29 16 59	29 21 55
	Oct	3 1 49	2 22 27		Oct	29 5 43	29 13 39
	Nov.	1 14 33	(1 8 54		0	(13 0 5	12 13 22
			30 20 25		Nov	27 18 27	28 3 52
	DEC	$\int 1 3 17$			DEC	27 7 11	27 16 18
Ì		(30 16 1	30 9 4	000	T	05 10 55	26 2 59
				826. F.	JAN.	25 19 55	24 12 10
	0	(14 10 23	<b>14</b> 23 28	ll .	FEB	i i	25 20 25
829.	JAN	29 4 45	28 22 51	30 1 18	MAR.	1	
C.B.	FEB	27 17 29	27 13 40		APRIL	24 10 7	24 4 29 9 15 5
29 7 52	MAR	28 6 13	28 5 15		0	9 4 29	1
	APRIL	26 18 57	26 21 3		MAY .	1 00 44 04	23 13 25 22 0 9
	MAY.	26 7 41	26 12 20		JUNE	20 0 10	1
	June .	24 20 25	25 2 31	.	JULY		21 13 22 20 5 9
	0	( 9 14 47	9 3 15	,	Aug.		
	JULY.	124 9 9	24 15 22	s	SEPT.	1	
	Aug	22 21 53	23 3 2	3	Oct.	. 18 14 31	
	SEPT	21 10 37	21 14 (	)	0	$\begin{cases} 2 & 8 & 58 \\ 47 & 9 & 18 \end{cases}$	l .
	Oct	20 23 21	21 0 48	3	Nov.	. 17 3 18	
	Nov.	19 12 5	19 11 30	)	DEC.	. 16 15 59	17 3 23
	DEC	. 19 0 49	18 22 2	825.	JAN.	. 15 4 48	15 17 5
				E.D.	FEB.	. 13 17 27	7 14 4 16
828.	JAN.	. 17 13 33	17 9 30	29 7	7 MAR.	. 14 6 19	2 14 13 17
828. A.	FEB.	10 0 17	15 20 59	- II	APRI	140 40 5	6 12 20 47
29 13 4			17 9 1	11	0	27 13 1	8 27 18 35
29 15 4	APRIL		" <u>.</u> .	11	MAY	. 12 7 40	12 3 47
	MAY		1	11	JUNE		10 11 21
1	June			. 11	July	1 - 0 - 0	9 20 33
				11	Aug.	1 0 0 2 2	2 8 8 20
	JULY		1	16	SEPT		
	A.UG.	10 10 00		. 11	Ост.	. 6 23 2	
	SEPT.	10 19 20		11	0	21 17 4	2 21 16 23
	Oct.		1	11	Nov.	1 - 10	4 5 11 55
	Nov.	0 0 89			DEC.	. 5 0 4	8 5 7 12
1	DEC.	. 8 9 38	, 0141	·			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. (○ Full E-1.)
B.C. 824.		d. h. m.	d. h. m.	AND METERS OF THE STATE OF THE		d. h. m.	d. h. m.
c. March.	JAN	8 13 32	4 0 57	B.C.	JAN	5 1 4 42	•••
d. h. m.	FEB	2 2 16	2 16 4	821.	•	<b>180 17 26</b>	80 14 80
29 12 56	Mar	8 15 1	4 4 10	G.F. March.	O	5 14 11 48	14 20 14
	APRIL	2 3 45	2 13 32	d. h. m.	FEB	29 6 10	29 7 85
ļ	MAY .	5 1 16 29	1 21 2	29 6 22	MAR	29 18 54	80 0 19
		(31 5 18	81 8 42		APRIL.	28 7 88	28 15 48
	June.	29 17 57	29 10 87		MAY .	27 20 22	28 5 18
	JULY.	29 6 41	28 18 55		Junk.	26 9 6	26 16 48
	Aug	27 19 25	27 5 81		July.	25 21 50	26 2 54
	SEPT	26 8 9	25 19 5		. 0	9 16 12	9 8 57
	Oct	25 20 58	25 11 88		Ava	21 10 84	24 12 19
	Nov.	24 9 87	24 6 22		SEPT	22 28 18	22 21 45
	DEC	28 22 21	24 2 8		Oct.	22 12 2	22 7 57
	JAN	22 11 5	22 20 80		Nov.	21 0 48	2) 18 57
823.	FEB.	20 28 49	21 12 49		DEC	20 18 80	20 6 56
В.	0	(7 18 11	7 18 8	820.	JAM	19 2 14	18 19 55
29 18 45	MAR.	22 12 33	28 2 7	E.	FEB	17 14 58	17 9 56
-5 25 25	APRIL	21 1 17	21 12 81	29 12 11	MAR	19 8 48	19 0 56
	MAY .	20 14 1	20 20 48		APRIL.	17 16 27	17 16 29
	JUNE .	19 2 45	19 3 47		MAY .	17 5 11	17 8 1
	JULY.	18 15 29	18 10 50		June.	3 15 17 55 80 12 17	15 22 58 80 2 40
	Aug	(17 4 18	16 18 54		July.	15 6 89	15 12 87
	0	81 22 85			Aug.	18 19 28	14 1 6
	SEPT	15 16 57	1 2 0 15 4 49		SEPT.	12 8 7	12 12 40
	Oct	15 5 41	14 17 12		Oct.	11 20 51	11 28 42
	Nov		18 8 15		Nov.	10 9 85	10 10 84
	DEC	13 7 9	18 1 31		DEC.	( 9 22 19	9 21 26
					0	24 16 41	21 28 28
822.	JAN.	11 19 58	11 20 2	819.	JAN	8 11 8	8 8 16
Α.	FEB	∫10 8 37	10 14 26	D.	FEB	6 28 47	6 19 16
	-0	(25 2 59	25 8 45	29 18 0	MAR.	8 12 82	8 6 48
30 0 33	MAR.		12 7 28		APRIL	7 1 16	6 19 14
	APRIL	10 10 6	10 21 57		MAY .	6 14 0	6 8 56
ŀ	MAY .	1	10 9 49		JUNE .	(5 2 44	1
	June .		8 19 26		0	19 21 6	
	Aug.	1	8 8 40	,	July .	4 15 28	1
	AUG.	$\begin{cases} 21 & 7 & 24 \\ 21 & 7 & 24 \end{cases}$			Aug	E.	1
	SEPT.	1 2		11	SEPT	1 16 56	1 21 57
	1	4 14 80			0	(1 5 40	1 12 2
		3 3 14			Oct	-(20 TO 34	
	DEC.	C 0 15 50			Nov.	29 7 8	
	DEC.	·  { `	81 21 58		0		18 22 88
1	1	1 -	1	11	DEC.	. 1 <u>(28 19 5</u> 2	29 0 2

Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.) (	True New Moon.	Mean Vernal Equinox.	Month.	Mean New T Moon. (O Full Ect.)	rue New Moon. Full Ecl.)
B.C. 818.		d. h. m.	d. h. m.	B.C. 815.		d. h. m. d	d. h. m.
c.	JAN	27 8 36	27 10 8	F.	JAN	23 23 46 2	24 12 53
March.	FEB	25 21 20	25 19 35	March. $d$ , $h$ , $m$ .	FEB	22 12 30 2	23 2 24
d. h. m. 29 23 49	MAR.	27 10 4	27 4 56	29 17 15	MAR	24 1 14 2	24 12 57
25 25 45	APRIL	25 22 48	25 15 1		0	(7 19 36	7 15 13
	MAY.	25 11 32	25 2 35		APRIL	12 1	22 21 13
	1	(9 5 54	9 12 1		MAY.	22 2 42	22 4 7
	O June.	24 0 16	23 16 6		June .	20 15 26	20 10 47
		23 13 0	23 7 32		July .	20 4 10	19 18 20
1	July.	23 13 0	22 0 17		Aug.	1 1	18 3 46
	Aug.	20 14 23	20 17 26		SEPT.	1 1	16 15 52
	SEPT				0	(2 0 0	2 5 39
	Oct	20 3 12			Oct.	16 18 22	16 7 1
1	Nov.	18 15 56	19 1 14 3 1 15		Nov.	15 7 6	15 0 48
	_ 0	3 10 18			DEC.	14 19 50	14 20 5
	DEC	18 4 40	18 14 39		DEC.	11 10 00	
					-	10 0 04	10 15 16
817.	JAN	16 17 24	17 2 9	814.	JAN.	13 8 34	13 15 16
B.A.	FEB	15 6 8	15 11 53	E.	FEB	11 21 18	12 8 46
29 5 38	MAR	15 18 53	15 20 19	29 23 4	MAR.	1 1	13 23 33
	APRIL	14 7 37	14 4 10		0	28 4 25	27 22 16
	MAY.	13 20 21	13 12 24		APRIL	1	12 11 17
	JUNE .	12 9 5	11 22 0		MAY		11 20 28
	JULY.	11 21 49	11 9 54	∥ .	JUNE	1	10 4 2
1	Aug.	10 10 33	10 0 29		JULY	1	9 11 4
	SEPT.	8 23 17	1		Aug.		7 18 37
	Oct.	8 12 1	8 11 56		SEPT.	.   6 14 27	6 3 39
1.	Nov.	7 0 45	7 6 29	1	0	(21 8 49	21 13 45
}	DEC.	6 13 29	6 23 45		Oct.	1	5 14 52
Ì	D 20				Nov.	i	4 4 36
	_	5 2 18	5 14 46	3	DEC.	. 4 4 39	3 20 46
816.	JAN.	0 14 7		11	1		
G.	FEB.			813.	JAN.	. 2 17 23	2 14 .38
29 11 20		0 10 0	1	D.G.	FEB.	. 1 6 7	1 9 5
ļ	APRIL	· +)	-			(1 18 52	2 2 46
1	0	(18 10 4	J -5	29 4 5	3 MAR.	· 31 7 86	31 18 29
	MAY			6	APRI	ь 29 20 20	30 7 41
	June	į	30 19 1		MAY	. 29 9 4	29 18 24
	<b>T</b>	(168	18	_	June	1 10	28 3 21
	Julx	1 30 19 2	2 30 5 4	11	July	27 10 32	
	Aug.	. 29 8	•   ==	6	Aug.	07 00 10	25 19 45
	SEPT.	07 00 7	1	ii ii	SEPT	04.40	24 4 59
	0	(12 15 1		11	Ост.	. 24 0 44	23 15 42
	OUT.	. 27 9 9	) <del>-</del>   ,	7	Nov.	22 13 28	3 22 4 9
	Nov.	. 25 22 1		11	DEC.	00 0 10	
	DEC.	. 25 11	2 25 20 2	:3		1	1
1		1	1	* (			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.  Tull Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 812.	Jan	d. h. m. 20 14 56	d. h. m. 20 10 3	B.C. 809. F.E. March.	Jan	d. h. m. 18 6 6	d. h. m. 18 9 32
March.	0	5 4 9 18	4 19 32	d. h. m.	Feb	16 18 50	16 19 2
d. h. m.	FEB	19 3 40	19 2 43	29 4 8	MAR	17 7 31	17 4 7
29 10 42	MAR	20 16 24	20 19 31		APRIL	15 20 18	<b>1</b> 5 <b>13 3</b> 0
	APRIL	19 5 8	19 11 32		MAY .	§15 9 2	<b>1</b> 5 0 2
	MAY.	18 17 52	19 2 3		0	₹30 3 24	30 11 36
	June .	17 6 36	17 14 42		June .	13 21 46	13 12 26
	JULY.	(16 19 20	17 1 40		July.	13 10 30	13 2 58
	0	(31 13 42	31 0 35		Aug	11 23 14	11 19 18
	Aug	15 8 4	15 11 85		SEPT	10 11 58	10 12 36
	SEPT	13 20 48	13 21 11		Oct	10 0 42	10 5 51
1	Oct	13 9 32	13 7 9		Nov	(8 13 26	8 22 3
	Nov.	11 22 16	11 17 47		0	23 7 48	22 21 53
	DEC	11 11 0	11 5 14		Dec	8 2 10	8 12 32
811.	T	4 0 00 44	0.47.00	808.	JAN	6 14 54	7 0 58
A.	JAN	9 23 44	9 17 32	D.	FEB	5 3 38	5 11 25
	0	(24 18 6	25 7 37	29 9 57	Mar	6 16 23	6 20 16
00 10 00	FEB	8 12 28	8 6 45	20 00.	APRIL	5 5 7	5 4 7
29 16 30	MAR	10 1 13	9 20 59		MAY.	( 4 17 51	4 11 51
Į.	APRIL	8 13 57	8 12 2		0	19 12 13	19 21 55
	MAY .		8 3 32		June.	3 6 35	2 20 31
İ	JUNE.		6 18 50		JULY.	2 19 19	(2 7 8
	July.	$\begin{cases} 6 & 4 & 9 \\ 20 & 22 & 31 \end{cases}$	6 9 19 \\ 20 10 45			(183	31 20 28
	Aug.	1 "	4 22 40		Aug	30 20 47	30 12 22
	SEPT.		3 10 56		SEPT	29 9 31	29 6 24
1	Oct.	2 18 21	2 22 28		Oct	28 22 15	29 1 16
	001.	1	1 9 34		0	(12 16 87	12 9 43
	Nov.	$\begin{vmatrix} 1 & 7 & 5 \\ 30 & 19 & 49 \end{vmatrix}$	30 20 30		Nov	27 10 59	27 19 29
	DEC.		30 20 30		DEC	26 23 43	27 11 46
810.	Jan.	. 28 21 17	28 17 57	807.	JAN	25 12 27	26 1 26
G.	FEB.			С.	FEB	24 1 11	24 12 23
29 22 19	1			29 15 46	MAR	25 13 56	25 21 7
20 22 19	APRIL		28 16 30		APRIL	24 2 40	24 4 23
1	MAY		27 5 19	1	0	821 2	
	_		26 19 29	H	MAY .	23 15 24	1
1	June		25 10 47		JUNE .	22 4 8	21 18 41
	Tvvv vv	10 7 20	10 2 33		JULY .	21 16 52	21 3 54
	July	1	25 2 36		Aug	20 5 36	<b>19 15 4</b> 8
	Aug.		23 18 15		SEPT	18 18 20	18 6 47
	SEPT.		22 9 7		Oct	18 7 4	18 0 30
	Ocr.	1	21 22 56		0	(2 1 26	2 1 17
	Nov.	1	20 11 36		Nov	16 19 48	16 19 52
	DEC.	. 19 17 22	19 23 7		DEC	16 8 32	16 15 13
	1	I	1	H	t	1	1

			1.	1	1	1	
Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.) (	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Mouth.	Mean New Moon. (O Full Ecl.) (	True New Moon. O Full Ecl.)
B.C. 806.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
В.	JAN	14 21 16	15 8 58	803.	JAN	11 12 25	11 6 6
March.	FEB.	13 10 0	13 23 58	E.	FEB	(10 1 9	9 22 4
d. h. m. 29 21 35	MAR.	14 22 44	15 11 52	March. $d. h. m.$	0	24 19 31	25 4 15
25 21 55	APRIL	13 11 28	13 21 6	d. h. m. 29 <b>15 1</b>	MAR.	11 13 54	11 14 39
1		13 0 12	13 4 30		APRIL	10 2 33	10 7 1
1.	MAY .	11 12 56	11 11 9		MAY .	9 15 22	9 22 19
	June .	11 12 30	10 18 11		June .	8 4 6	8 11 59
	JULY .	9 14 24	9 2 37		JULY.	7 16 50	7 23 56
	Aug.		7 13 25		Aug	(6 5 34	6 10 32
	SEPT	-	7 3 7		0	20 23 56	20 11 15
-	Oct	7 15 52			SEPT	4 18 18	4 20 28
	Nov	6 4 36	5 19 42		Oct.	4 7 2	4 6 25
	DEC	5 17 20	5 14 22		Nov.	2 19 46	2 16 51
					1101.	(2 8 30	2 3 53
805.	JAN.	4 6 4	4 9 42		DEC	31 21 14	31 15 36
A.G.	FEB	2 18 48	3 4 7			(51 21 14	31 13 30
29 3 23	MAR	(3 7 38	3 20 15	802.	JAN	30 9 58	30 4 6
	0	(18 1 55	<b>17 20 4</b> 9	D.	FEB.	28 22 43	28 17 30
	APRIL	1 20 17	2 5 26	29 20 50	MAR.	30 11 27	30 7 58
1		(191	1 19 47	29 20 30	APRIL	29 0 11	28 23 2
	MAY .	30 21 45	31 4 4		MAY.	28 12 55	28 14 27
	June .	29 10 29	29 11 18		June .	27 1 39	27 5 30
1	JULY.	28 23 13	28 18 36		JULY .	26 14 23	26 19 41
	Aug	27 11 57	27 2 58		Aug.	1	25 8 46
	. 0	(11 6 19	11 9 31		SEPT.		1
	SEPT	26 0 41	25 13 8		Oct.	23 4 35	
	Oct	25 13 25	25 1 40		Nov.		1
	Nov	24 2 9	23 16 37		DEC.	24 0 0	1
	DEC	23 14 53	23 9 35		DEC.	21 0 2	21 0 22
						(5 0 2	5 7 16
004	JAN	22 3 37	22 3 43	801.	JAN.	1)	1
804. F.	1	20 16 21	20 21 44	C.B.	-	18 7 3	
	FEB	7 10 43		29 2 39			- I
00 0 1	MAD O	13		20 2 00	APRIL	1 -0	
29 9 15		20 17 49	21 4 50		MAY		
	APRIL				June	1 20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	MAY .		19 2 39	1	0	30 4 4	
	June .		1		JULY		
	JULY .		I		Aug.	1 == == ==	
	Aug.	.   ] =	1		SEPT.	10	
	0	(31 15 7			Oct.	0 0	
	SEPT.	1	1		Nov.	11 13 2	T
	Oct.	. 14 22 13	1		DEC.	1 20 2	1 1 2 2 2 2 2
	Nov.	10 00 41			DEC.	9 14 5	
	DEC.	. 12 23 41	12 15 19			24 9 1	5 Z± 0 30
}			J	II.	1	1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Fult Ecl.)	True New Moon, () Full Ecl.)
B.C. 800.	70	d. h. m.	d. h. m.	B.C. 797.	14. AL HARRIST STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,	d. h. m.	d. h. m.
A	JAN	8 8 85	8 8 49	E.D.	JAN	5 18 45	6 4 20
$\begin{array}{cccc} \mathbf{March.} \\ d. & h. & m. \end{array}$	FEB	6 16 19	6 18 85	March.	FEB	4 7 29	4 20 45
29 8 28	MAR	8 5 4	8 8 85	29 1 54	MAR	4 20 14	5 10 9
	APRIL	6 17 48	6 12 28		APRIL	(8 8 58)	8 20 88
	MAY .	6 6 82	5 22 6		O	18 8 20	17 22 2
	June.	( 4 19 16	4 9 22		MAY .	2 21 42	8 4 41
	0	19 18 88	19 19 22			( 1 10 26	1 11 84
	July.	4 8 0	8 22 47		Jung.	80 28 10	80 18 20
	Aug.	2 20 44	2 14 28		July.	80 11 54	80 2 2
	1100.	(1 9 28	1 7 80		Ava.	29 0 88	28 11 89
	SEPT	80 22 12			SEPT.	27 18 22	26 28 57
	Ocr	80 10 56	$  \begin{cases}  1 & 1 & 9 \\ 80 & 18 & 14  \end{cases} $			12 7 44	12 14 5
	Nov.	28 28 40	29 9 48		Oct.	27 2 6	26 15 10
	ì	(18 18 2	18 9 40		Nov.		25 8 58
	0	28 12 24	28 28 21				25 8 54
	DEC	(20 12 24	20 20 21		Drc	25 8 84	20 0 00
799.	_	<b>3</b> 4 6			_		
799. G.	JAN	27 1 8	27 10 40	796.	JAN	28 16 18	28 22 57
	FEB	25 18 52	25 20 6	G,	FEB	22 5 2	22 16 18
29 14 16	MAR.	27 2 87	27 4 11	29 7 48	MAR	28 17 47	24 6 50
	APRIL	25 15 21	25 11 40		0	f 7 12 9	7 5 89
	MAY .	25 4 5	24 19 37		APRIL	122 6 81	22 18 82
1	June.	28 16 49	23 5 4		MAY .	21 19 15	22 8 45
	July .	28 5 38	22 16 57		June.	20 7 59	20 11 23
	Aug.		21 7 40		JULY.	19 20 48	19 18 44
	SEPT	l	20 0 56		Ava	18 9 27	18 2 88
	Oct	1	19 19 48		SEPT	16 22 11	16 11 58
	Nov.	18 8 29	18 14 86		0	f 1 16 88	1 21 87
	DEC	.   17 21 18	18 8 4		Ocr	16 10 55	15 28 21
Ĭ .					Nov	14 28 89	14 18 5
798.	JAN.	. 16 9 57	16 28 6		DEC	14 12 28	14 5 0
F.	FEB	14 22 41	15 11 18				
29 20 5	MAR.	. 16 11 25	16 20 55	795.	JAN	18 1 7	12 22 80
	APRIL	15 0 8	15 4 40	в.	FEB	11 18 51	11 16 80
	0	129 18 31	29 20 85	29 13 82	MAR	18 2 85	18 9 47
	MAY .	. 14 12 58	14 11 80		APRIL	11 15 19	12 1 20
	June .	. 13 1 37	12 18 28		MAY .	11 4 8	11 14 88
	July	. 12 14 21	12 2 42		JUNE .	9 16 47	10 1 29
	Aug.	. 11 8 5	10 13 13		JULY .	9 5 81	9 10 45
	SEPT.	. 9 15 49	9 2 48		Aug	7 18 15	7 19 17
	Ocr.	. 6 9 4 38	8 19 14		SEPT	6 6 59	6 4 0
	0	123 22 58	5 24 0 20		Ocr	5 19 48	5 18 86
	Nov.	. 7 17 17			Nov.	4 8 27	4 0 80
	DEC.	. 761			DEC.	8 21 11	8 12 52

Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon.  O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. Tull Ecl.)
B.C. 794. A. March.	FEB.	d. h. m. 2 9 55 31 22 39 15 17 1	d. h. m. 2 2 42 31 17 52 16 3 46	B.C. 791. p. March. d. h. m. 29 12 47	Jan Feb Mar	d. h. m. 28 13 49 27 2 33 28 15 18 27 4 2	d. h. m. 28 18 6 27 3 12 28 11 50
d. h. m. 29 19 20	MAR.	2 11 24			APRIL		26 20 46
29 19 20	APRIL	108	1 2 18		MAY .	26 16 46 (10 11 8	26 6 57 10 18 50
	M	30 12 52 30 1 36	50 18 7 30 8 41		JUNE.	(25 5 30	24 19 11   24 9 45
	MAY . June .	28 14 20	28 21 38		JULY.	24 18 14 23 6 58	23 2 21
	JULY .	28 3 4	28 9 5		AUG	21 19 42	21 20 7
	0	(11 21 26	11 7 54		Oct.	21 8 26	21 13 50
	Aug	26 15 48	26 19 32		Nov.	19 21 10	20 6 28
	SEPT.	25 4 32	25 5 40			( 4 15 32	4 6 28
	Ост.	24 17 16	24 15 59		DEC.	19 9 54	19 21 9
	Nov	23 6 0 22 18 44	23 2 45 22 14 4	790.	JAN	17 22 38	18 9 33
				c.	FEB	16 11 22	16 19 41
793.	JAN	21 7 28	21 1 55	29 18 36	MAR.	18 0 7	18 4 14
U.F.	0	$\begin{cases} 5 & 1 & 50 \\ 10 & 20 & 10 \end{cases}$	5 15 41		APRIL	16 12 51	16 11 41
00 1 0	Fen.	19 20 12	19 14 34 20 4 10		MAY .	16 1 35	15 19 11 31 4 42
29 1 9	MAR.	18 21 41	18 18 44		June .	(30 <b>1</b> 9 57 <b>14 14 1</b> 9	14 3 40
	MAY.	18 10 25	18 9 58	11	JULY .	1. 0.0	13 14 13
	June .	16 28 9	1	11	Aug.		12 3 33
	JULY.	(16 11 58	16 16 10	·	SEPT.		10 19 44
	0	81 6 15	30 18 21	.	Ост.	. 10 17 15	10 14 4
	Aug	15 0 37	15 6 5	<b>;</b>	Nov.	. 9 5 59	9 9 15
	SEPT	18 18 21	. 13 18 58	3.	0	24 0 21	23 18 37
	Oct	18 2 5		11	DEC.	. 8 18 43	9 3 40
	Nov	11 14 49	1	700	Jan.	. 7 7 27	7 20 3
	DEC	11 8 8	3 11 5 29	789. B.A.	FEB.	5 20 11	1
792.	JAN	9 16 17	9 16		1		6 20 21
E.	FEB	8 5	1 8 2 10	3   20 0 20	APRII	4 04 00	5 4 50
29 6 5	MAR	9 17 4		II.	MAY		1
	APRIL	8 6 29		11	0	19 4 4	
	MAY .	7 19 19	- 1	8	June	1	1
	June .	6 7 5		11	JULY	1	1101 11 00
	Jurx.	$\begin{cases} 5 & 20 & 4 \\ 20 & 15 \end{cases}$	3 20 10 1	8	Aug.	$\left.\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	Aug	4 9 2	1	. II	SEPT.	. 29 2	1
	SEPT		9 3 1 3	11	Oct.	. 28 14 4	
	Ocr	$\int 2 10 5$	- 1	8	0	13	9 12 10 12
		31 23 3	11		Nov.	1 *	
1	Nov.	1		11	Dec.	. 26 16 1	5 26 23 10
	DEC.	30 1	$5 \mid 30 \mid 7 \mid 5$	0			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
				- 1			
B.C. 788.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
G. March.	JAN	<b>25 4 5</b> 9	25 16 <b>4</b> 9	785.	Jan	22 20 9	22 14 10
d. h. m.	Fев	23 17 43	24 7 41	D.C. March.	FEB	21 8 53	21 + 5 + 33
29 6 13	MAR	25 6 28	25 19 27	d. h. m.	0	5 7 3 15	7 12 28
	APRIL	23 19 12	24 4 33	28 23 40	MAR	<b>21 21 38</b>	21 21 35
	MAY .	23 7 56	23 11 56		APRIL	20 10 22	20 13 37
	June .	21 20 40	21 18 39		MAY .	19 23 6	20 4 51
	July.	21 9 24	21 1 49		June.	18 11 50	18 18 45
1	Aug	19 22 8	19 10 30		JULY.	18 0 34	18 7 8
	SEPT	18 10 52	17 21 30		Aug	(16 13 18	16 18 1 <b>6</b>
	Oct	17 23 36	17 11 19		0	(31 7 40	30 18 44
	Nov	16 12 20	16 3 52		SEPT	15 2 2	15 4 45
	DEC	16 1 4	15 22 21		Ост	14 14 46	14 15 9
		,			Nov	13 3 30	13 1 48
787.	JAN	14 13 48	14 17 26		DEC	12 16 14	12 12 47
F.	FEB.	13 2 32	13 11 35				
29 12 2	MAR.	(14 15 16	15 3 29	784.	JAN.	11 4 58	11 0 11
	0	29 9 38	29 4 24	В.	FEB.	9 17 42	9 12 9
	APRIL	13 4 0	13 16 35	29 5 29	MAR.	11 6 26	11 0 55
	MAY.	12 16 44	18 2 58	23 5 25	APRIL	9 19 10	9 14 45
ļ	JUNE.	11 5 28	11 11 24		MAY.	9 7 54	9 5 32
1 .	JULY.	10 18 12	10 18 52		June.	7 20 38	7 20 55
-	Aug.	9 6 56	9 2 30		JULY.	7 9 22	7 12 12
	SEPT.	7 19 40	7 11 11		Aug.	5 22 6	6 2 50
	0	22 14 2	22 17 8		SEPT.	4 10 50	4 16 31
	Oct.	7 8 24	6 21 33	H	Oct.	3 23 34	4 5 16
ł	Nov.	5 21 8	5 10 12		Nov.	2 12 18	2 17 12
	DEC.	5 9 52	5 0 59	ļ	1107.	(2 1 2	2 4 30
	DEC.	0 0 02	0 0 00		DEC		
700	-	0.00.00	0.47.00		1	(31 13 46	31 15 12
786. E.	JAN.	3 22 36	3 17 37				
	FEB.	2 11 20	2 11 16		_ 0	15 8 8	15 15 1
29 17 51	MAR.	4 0 5	4 4 52	783.	JAN	(30 2 30	30 1 28
	0	(18 18 27	18 19 45	A.	FEB	28 15 15	28 11 24
	APRIL	2 12 49	2 21 15	29 11 17	MAR.	30 3 59	29 21 44
	MAY .	2 1 33	2 11 38	11	APRIL	28 16 43	28 9 8
		(31 14 17	31 23 45		MAY .	28 5 27	27 22 7
	June .	30 3 1	30 9 54		JUNE .	26 18 11	26 12 47
	JULY.	29 15 45	29 18 54		_ 0	$\int 11 \ 12 \ 33$	11 10 26
	Aug	28 4 29	28 3 39		JULY.	26 6 55	26 4 44
	0	(11 22 51	11 17 11		Aug	24 19 39	24 21 13
	SEPT	26 17 13	26 12 56		SEPT	23 8 23	23 13 25
	Oct	26 5 57	25 23 16	1	Oct	22 21 7	23 4 39
	Nov.	24 18 41	24 10 54		Nov	21 9 51	21 18 30
	DEC	24 7 25	23 23 52		DEC	20 22 35	21 6 46
		1	1				

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	Frue New Moon. Full Ecl.)
B.C. 782. G. March. d. h. m. 29 17 6	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	d. h. m.  { 4 16 57 19 11 19 18 0 3 19 12 48 18 1 32 17 14 16 (16 3 0 30 21 22 15 15 44 14 4 28 12 17 12 12 5 56 10 18 40 (10 7 24	d. h. m.  4 14 25 19 17 30 18 2 55 19 11 28 17 19 55 17 5 11 15 16 12  { 1 2 44 15 5 35 13 21 21 12 14 50 12 8 58 11 2 29 10 18 21	B.C. 779. c. March. d. h. m. 29 10 33	Jan Feb Mar April . O . May . June . July . Aug Sept O . O . Nov	d. h. m.  16 2 29 1 14 15 13 1 16 3 58 1 (14 16 42 1 29 11 4 14 5 26 12 18 10 12 6 54	d. h. m. 16 12 12 15 4 28 16 17 48 15 4 0 29 4 25 14 12 6 12 19 1 12 1 55 10 9 52 8 19 48 8 8 11 23 22 36 6 23 25 6 16 59
781. F.E. 28 22 55	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	2 13 16 { 1 2 0 { 80 14 44 . 80 3 28 . 28 16 12 . 28 4 56	30 8 30 30 3 35 28 22 42 28 16 16		37	2 2 58 1 15 42 31 4 26 29 17 10 28 5 54 (13 0 16 27 18 38 26 7 22	5 11 50 4 6 27 5 28 29 4 18 56 18 12 56 4 1 38 2 10 59 1 18 55 31 2 31 29 10 45 27 20 24 18 5 33 27 7 57 25 21 36 25 13 13
780. D. 29 4 4	JAN. FEB. MAR. APRIL O MAY JUNE JULY AUG. SEPT. OCT. O NOV. DEC.	25 6 24 26 19 9 25 7 58 10 2 11 24 20 8 28 9 21 22 22 1 21 10 48 19 28 8 19 12 11 3 6 8	25 19 18 27 4 44 3 25 12 11 5 10 3 3 7 24 18 5 1 28 1 5 2 2 10 1 9 20 20 5 8 19 10 3 7 19 8 9 3 9 1 1 17 22	777. A.G. 28 22 10 0 0 8 2 0 0	Jan. Feb.	. 24 8 50 . 22 21 34 . 28 10 19 . 21 23 3 . 21 11 47 . 20 0 31 . 19 13 15 . 18 1 59 . 16 14 43 . 16 3 27	21 21 23 20 8 35 19 18 16 18 3 15 16 12 24 15 22 20 14 9 20

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C.		d. h. m.	d. h. m.	B.C. 773.		d. h. m.	d. h. m.
776.	JAN	12 17 39	12 10 59	С.В.	JAN	10 8 49	10 16 41
F.	FEB	(11 6 23	11 1 34	March. $d. h. m.$	FEB	8 21 33	9 2 34
d. $h.$ $m.$	0 .	26 0 45	26 11 53	28 21 26	MAR	9 10 17	9 11 16
29 8 59	MAR.	12 19 7	12 17 <b>4</b>		APRIL	7 23 1	7 19 25
	APRIL	11 7 51	11 8 58		MAY.	7 11 45	7 3 57
	MAY.	10 20 35	11 0 37		JUNE.	6 0 29	5 13 53
	JUNE.	9 9 19	9 15 18		0	20 18 51	21 2 3
	JULY.	8 22 3	9 4 36		JULY.	5 13 13	5 2 0
	Aug	§ 7 10 47	7 16 34		Aug	4 1 57	3 16 39
İ	0	(22 5 9	21 15 21		SEPT	2 14 41	2 9 32
	SEPT	5 23 31	6 3 36		Ост	$\int 2 \ 3 \ 25$	2 3 42
	Oct	5 12 15	5 14 14			(31 16 9	31 21 54
	Nov	4 0 59	4 0 52		Nov	30 4 53	30 14 51
	DEC	3 13 43	3 11 42		0	§ 14 23 15	14 15 0
	_	(2 2 27	1 22 47		DEC	29 17 37	30 5 40
775.	JAN	(31 15 11	31 10 12	772.	JAN	28 6 21	28 17 57
E.	Fев	(		Α.	FEB.	26 19 5	27 3 54
ŀ	0	(15 9 33	15 23 32	29 3 15	MAR.	28 7 50	28 12 5
20 0 40	M	(2 3 56	1 22 15		APRIL	26 20 34	26 19 17
29 9 48	MAR	(31 16 40	81 11 15		MAY.	26 9 18	26 2 30
	APRIL	30 5 24	30 1 21		0	(10 3 40	10 11 28
	MAY .	29 18 8	29 16 25		JUNE.	24 22 2	24 10 52
	June .	28 6 52	28 7 52		JULY .	24 10 46	23 21 25
1	JULY.	27 19 36	27 23 5		Aug	22 23 30	22 10 52
	0	§11 13 58	11 2 6		SEPT	21 12 14	21 3 13
	Aug	26 8 20	26 13 34		Ост	21 0 58	20 21 50
	SEPT	24 21 4	25 3 5		Nov	19 13 42	19 17 14
	Oct	24 9 48	24 15 39		0	<b>(484</b>	4 3 31
	Nov	22 22 32	23 3 23		DEC	19 2 26	19 11 49
	DEC	22 11 16	22 14 23	771.	JAN	17 15 10	18 4 12
774.	JAN	21 0 0	21 0 40	G.	FEB.	16 3 54	16 17 38
D.	FEB	19 12 44	19 10 28	29 9 3	MAR.	17 16 39	18 4 11
29 15 37	MAR	21 1 29	20 20 17		APRIL	16 5 23	16 12 27
	APRIL	19 14 13	19 6 50		MAY.	(15 18 7	15 19 22
	MAY .	19 2 57	18 18 48		0	30 12 29	30 14 0
	June .	17 15 41	17 8 34		June .	14 6 51	14 2 2
	JULY .	(17 4 25	16 23 59		JULY.	<b>13 19 35</b>	13 9 31
	0	(31 22 47	31 18 2		Aug	12 8 19	11 19 0
	Aug	15 17 9	15 16 29		SEPT	10 21 3	10 7 11
	SEPT	14 5 53	14 9 12		Oct	10 9 47	9 22 26
	Ост	13 18 37	14 1 15		Nov	(8 22 31	8 16 22
	Nov	12 7 21	12 16 3		0	23 16 53	23 19 10
	DEC	11 20 5	12 5 13		DEC	8 11 15	8 11 47
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon.  C Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
B.C. 770.		d. h. m.	d. h. m.	B.C. 767.		d. h. m.	d. h. m.
March.	JAN	6 23 59	7 7 2	B. March.	JAN	3 15 9	3 8 23
d. h. m.	FEB	5 12 43	6 0 32	d. $h.$ $m.$	FEB	2 3 53	1 22 7
29 14 52	Mar	7 1 27	7 15 14	29 8 19	MAR	3 16 37	3 12 53
	APRIL	5 14 11	6 2 52		0	18 10 59	18 21 38
	MAY.	5 2 55	5 11 55		APRIL	2 5 21	2 4 24
	JUNE.	3 15 39	3 19 19		MAY .	5 1 18 5	1 20 8
	July.	3 4 23	3 2 11			(31 6 49	31 11 22
1	Aug	5 1 17 7	1 9 36		June.	29 19 33	30 1 31
1	A.04	(31 5 51	30 18 32		July.	29 8 17	29 14 22
	SEPT	29 18 35	29 5 44		Aug	27 21 1	28 2 6
	Oct	29 7 19	28 19 37		0	\frac{11}{5} 15 23	11 2 21
	Nov	27 20 3	27 12 3		SEPT	26 9 45	26 13 8
	DEC	27 8 47	27 6 17		Oct	25 22 29	25 23 56
					Nov	24 11 13	24 10 44
769.	JAN	25 21 31	26 1 2		DEC	23 23 57	23 21 38
E.D.	FEB	24 10 15	24 18 52		_		
28 20 41	MAR.	24 23 0	25 <b>1</b> 0 36	766.	JAN	22 12 41	22 8 40
	0	(8 17 22	8 11 54		FEB	21 1 25	20 20 5
	APRIL	28 11 44	23 23 38	29 14 8	MAR	22 14 10	22 8 16
	MAY .	23 0 28	23 10 7		APRIL	21 2 54	20 21 33
	June .	21 13 12	21 18 45		MAY .	20 15 38	20 12 3
	JULY .	21 1 56	21 2 33		JUNE .	19 4 22	19 3 23
	Aug	19 14 40	19 10 33		JULY.	18 17 6	18 18 56
1	SEPT	18 3 24	17 19 35		Aug	17 5 50	17 10 6
	0	( 2 21 46	3 0 52		SEPT	15 18 34	16 0 25
ł	OCT.	17 16 8	17 6 14		Oct.	15 7 18	15 13 43
	Nov.	16 4 52	15 18 50		Nov.	13 20 2	14 2 2
1	DEC	15 17 36	15 9 23		DEC	13 8 46	13 13 27
				765.	JAN	(11 21 30	11 23 58
768.	JAN.	14 6 20	14 1 33	G.F.	0	26 15 52	1
c.	FEB.	12 19 4	12 18 42		FEB	10 10 14	10 9 47
29 2 30	MAR.	(14 7 49	14 11 51	28 19 56	MAR.	10 10 14	10 19 17
200	MAR.	29 2 11	29 3 35	20 10 00	APRIL	9 11 43	
	APRIL	12 20 33	13 3 59		MAY .	9 0 27	8 16 4
	MAY.	12 20 00	12 18 23		JUNE .		7 4 46
	JUNE .	10 22 1	11 6 41		JULY.		
	JULY.	10 10 45	10 17 14		0	21 20 17	1
	AUG.	8 23 29	9 2 41		Aug.		
	SEPT.	7 12 13	7 11 55		SEPT.		
	SEPT.	22 6 35	22 0 38		Oct.	3 16 7	
	Oct	7 0 57	6 21 36	1	Nov.	2 4 51	1 1
	Nov.	5 13 41	5 8 8			( 1 17 35	
	DEC.	5 2 25	4 19 43		DEC		1
	220.						

Mean Vernal Equinox.	Month.	Menn New Moon, (O Full Ecl.)	True New Moon. (O Full Ecl.)	Menu Vernal Equinox.	Month.	Moan New Moon (O Full Ect.)	True New Mount, ( · Fust Kel )
B.C.	promoved contribution vibra.	d. h. m.	d. h. m.	B.C. 761. II.A.	JAN	d. h. m. 27 10 12	d, h, m. 27 19 55
764. E.	O Jan	{15 0 41 {29 19 8	80 2 4	March.	Fan	25 22 56	26 12 1
March.	FEB	28 7 47	28 11 7	$\frac{d}{28} \frac{h}{19} \frac{m}{12}$	MAR.	26 11 41	27 1 7
d. h. m. 29 1 45	MAR.	29 20 81	29 19 14	m / Al/ AW	Arms	25 0 25	25 11 20
20 1 W	APRIL	28 9 15	28 8 16	1	1.1	9 18 47	9 11 32
	MAY.	27 21 59	27 12 14		MAY .	121 18 9	21 19 26
	June .	26 10 48	25 28 5		Junk .	28 1 58	28 2 191
	0	(11 5 6	11 10 10		July .	22 14 87	22 9 84
	July.	25 28 27	25 12 29		Aug.	21 8 21	20 17 50
	Aug.	24 12 11	24 4 26		Выч.	19 16 5	19 8 56
	SEPT.	28 0 55	22 22 17		Ocr	19 4 49	18 16 82
	Oct.	22 18 89	22 16 52		0	2 28 11	8 7 11
	Nov.	21 2 28	21 10 44		Nov	17 17 88	17 7 42
	DEC.	20 15 7	21 2 47		Dre.	17 6 17	17 1 8
				i.			
	0	(4 9 29)	4 2 28	780.	JAN.	15 19 1	15 19 82
763.	JAN	19 8 51	19 16 20	G.	FKH.	14 7 45	14 18 49
D.	FEB	17 16 85	18 8 18	20 1 1	MAR.	15 20 80	16 6 86
29 7 81	MAR.	19 5 20	19 12 8	. 20 1 1	Arnii.	(14 9 14	14 20 68
	APRIL	17 18 4	17 19 82		O O	29 8 86	28 19 47
	MAY .	17 6 48	17 2 80		MAY .	18 21 54	14 H 40
	JUNE .	15 19 82	15 10 6		June .	12 10 42	12 18 18
	July .	15 8 16	14 19 27		July .	11 28 26	12 2 28
	Aug	18 21 0	18 7 27		Aug.	10 12 10	10 10 26
	SEPT	12 9 44	11 22 29		SEPT.	9 0 54	8 19 8
!	Our	11 22 28	11 16 18		Ост.	( 8 18 88	H 4 59
	Nov	10 11 12	10 11 81		0	28 8 0	28 18 86
	DEC	9 28 56	10 6 46		Nov	7 2 22	6 16 89
					Drc.	6 15 6	6 6 9
762. c.	JAN	8 12 40	9 0 28				
	FEB	7 1 24	7 15 17	740	T	5 8 50	4 21 23
29 18 28	MAR.	8 14 8	988	759. r.	JAN	5 8 50 8 16 84	8 18 52
	APRIL	7 2 52	7 12 20		FER.	1	
	MAY .	6 15 88	6 19 44	29 6 40	MAR.	8 18 2	8 28 29
	_ 0	21 9 58	21 9 80		APRIL	8 6 46	B 14 46
	June .	5 4 20	5 2 28		MAY .	1 19 80	2 4 9
	JULY .	4 17 4	4 9 22		Junn .	/ 1 0 14	1 18 40
	Aug.	8 5 48	2 17 48		July .	80 20 88	81 1 49
	SEPT	1 18 82			Aug	29 9 42	20 11 19
	Oct	1 7 16			SEPT.	27 22 26	1
	_	(80 20 0			Ocr.	27 11 10	27 7 9
	Non	14 14 22			Nov.	25 28 54	25 18 14
	Nov.	29 8 44			DEC.	25 12 88	25 6 14
	DEC	23 21 28	29 1 27				

Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
B.C.		d. h. m.	d. h. m.	B.C. 755.		d. h. m.	d. h. m.
758.	JAN	24 1 22	23 19 11	A.	JAN	20 16 32	21 1 17
E.	FEB	22 14 6	22 9 10	March.	FEB	19 5 16	19 10 52
March.		(9828	9 19 50	d. h. m. 29 6 5	MAR.	20 18 1	20 19 11
d. h. m. 29 12 38	MAR.	$\begin{cases} 24 & 251 \end{cases}$	24 0 6	20 0 0	APRIL	19 6 45	19 2 57
25 12 55		22 15 35	22 15 35			18 19 29	18 11 10
	APRIL	1			MAY.		
	MAY .	22 4 19	22 7 5		JUNE .	17 8 13	16 20 52
	June .	20 17 3	20 21 55		July.	16 20 57	16 8 56
	JULY.	20 5 47	20 11 38		Aug	15 9 41	14 23 42
	Aug	18 18 31	19 0 10		SEPT	13 22 25	13 16 54
		[ 2 12 53	1 22 59		Oct	13 11 9	13 11 27
	SEPT	17 7 15	17 11 47		Nov	11 23 53	12 6 2
	Oct	16 19 59	16 22 54		DEC	∫11 12 37	11 23 14
	Nov.	15 8 48	15 9 49		0	<sup>1</sup> 26 6 59	25 23 33
	DEC.	14 21 27	14 20 39				
				754.	JAN	10 1 21	10 14 5
757.	JAN	13 10 11	13 7 28	G.	FEB	8 14 5	9 2 15
D.C.	FEB	ſ11 22 55	11 18 23	29 11 54	MAR	10 2 50	10 11 56
	0	26 17 17	27 7 17	20 22 02	APRIL	8 15 34	8 19 48
23 18 27	MAR	12 11 40	12 5 50		MAY.	8 4 18	8 2 45
	APRIL	11 0 24	10 18 16		June .	6 17 2	6 9 50
	MAY .	10 13 8	10 7 57		O O	21 11 24	21 18 14
	June .	9 1 52	8 22 52		JULY.	6 5 46	5 18 10
	July.	8 14 36	8 14 29		1 .	4 40 00	4 4 46
	Aug.	7 3 20	7 6 7		Aug.		2 18 22
	0	21 21 42	21 10 0	H	SEPT.	2 - 2 - 2	2 10 56
	SEPT.	5 16 4	5 21 12	ii .	Oct.		1 5 43
	1 -		5 11 19		Nov.	$\begin{cases} 1 & 8 & 42 \\ 20 & 24 & 22 \end{cases}$	
	Oct.	5 4 48				(30 21 26	1/ 1 1 10
	Nov.	3 17 32	4 0 21		0	∫15 15 48	1/
	DEC	3 6 16	3 12 19		DEC.	. (30 10 10	30 19 53
		(119 0	1 23 14				29 12 12
756.	JAN	81 7 44	81 9 12	753.	JAN.		
в.	FEB	1		F.E.	FEB.	i i	
		( 1 20 28	1 18 33	28 17 4	B MAR.	1	
29 0 16	MAR	81 9 12		)	APRII	26 13 6	1
	A	20 04 70	1	II .	MAY	. 26 1 50	1
	APRIL			11	0	§ 9 20 19	9 20 26
1	MAY .			III	JUNE	. \24 14 34	4 24 9 31
	June .			il .	JULY	. 24 3 18	3 23 17 10
	July.			. 11	Aug.	00 10 0	2 22 2 47
	0	∫11 6 30		11	SEPT.	04 4 4/	3 20 15 8
	Aug.	1 *		11	OCT.	20 17 30	
	SEPT.			11	Nov.	19 6 14	1
	Oct.	. 24 2 20		11	1	4 0 3	_
1	Nov.	. 22 15	4 23 0 38	3	DEC.	. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	DEC.	. 22 3 48	3   22 13 5'	7	DEC.	. 10 10 0	
1	ì	1					<u> </u>

Moan Veraul Equinox.	Month.	Mean New Moon. (O Full Ect.)	True New Moon.	Mean Vernal Equinox.	Month.	Monn New Moon.	True New Moon. Full Ecl.)
B.C.		d. h. m.	d. h. m.	B.C.	hayyan <b>silibud</b> ation ing tay	d. h. m.	d. h. m.
752.	_		1	749.	JAN	14 22 52	14 16 48
March.	JAN	17 7 42	17 14 45	March.		13 11 36	18 5 58
d. h. m.	FEB.	15 20 26	16 8 4	d. h. m.	FEB.	(14 0 21	18 20 8
28 23 82	MAR.	17 9 11	17 22 88	28 16 58	MAR.	2H 1H 48	20 4 7
	APRIL	15 21 55	16 10 11			12 18 5	12 11 9
	MAY.	15 10 89	15 18 85		APRIL MAY .	12 1 49	12 2 87
	JUNE.	13 28 23	14 2 45		JUNE.	10 14 83	10 17 58
	July.	18 12 7	13 9 49		July .	10 8 17	10 8 21
	Aug	12 0 51	11 17 81		Aug	8 16 1	8 21 44
	SEPT	10 13 85	10 2 48		SEPT.	7 4 45	7 10 4
	Our	10 2 19	911 7		O	21 28 7	21 10 9
	Nov.	8 15 8	8 4 2 7 20 17		Ocr	6 17 29	6 21 39
	Drc	8 8 47	1 201 11		Nov.	5 6 18	B 8 49
					DEC.	4 18 57	4 19 45
751.	JAN	6 16 81	6 14 9		27200	* * * * * * * * * * * * * * * * * * * *	* **
c.	FEB	5 5 15	5 8 81				
29 5 21	MAR	6 17 59	7 2 1	748.	JAN	8 7 41	8 6 27
	APRIL	5 6 48	5 17 81	F.	FEB	1 20 25	1 17 5
	0	120 1 5	19 19 18	23 22 47	MAR.	3 9 9	8 8 54
	MAY.	4 19 27	5 6 85		APRIL	1 21 58	1 15 29
	June .	8 8 11	8 17 18		MAY .	1 10 87	1 4 18
	July .	2 20 55	8 2 8		*	(80 28 21	80 18 81
	Aug	$\begin{cases} 1 & 9 & 89 \\ 90 & 99 & 99 \end{cases}$	1 10 19		June.	29 12 5	20 0 52
		180 22 28	80 18 42		July .	29 0 49	20 1 45
	SEPT	29 11 7	29 4 5		Auu.	27 18 83	27 17 28 26 8 28
	Oct.	$ \begin{vmatrix} 14 & 5 & 29 \\ 28 & 28 & 51 \end{vmatrix} $	28 14 55		SEPT	26 2 17 25 15 1	25 22 14
	Nov.	27 12 85	27 8 29	l	Nov.	21 8 45	24 10 52
	DEC.		26 17 44		DEC.	28 16 29	28 22 20
	DEC	21 110	20 11 43		DEC.	20 10 20	20 22 21
750.	JAN	25 14 8	25 9 24	747.	JAN	22 5 14	22 8 83
в.	FEB	24 2 47	24 2 0	E.	0	f 5 28 86	6 6 9
29 11 9	MAR	25 15 82	25 18 48		FEB	120 17 58	20 18 2
	0	∫ 9 9 54	9 11 17	20 4 86	MAR.	22 6 42	22 8 1
	Arnt	121 4 16	21 10 88		APRIL	20 19 26	20 12 21
	MAY.	1			MAY .	20 8 10	19 22 55
	June .				June .	18 20 54	18 11 26
1	JULY .	l l	1		July .	18 9 88	18 2 6
	Aug.	1			0	[2 4 0	1
	SEPT.	1			Aug	16 22 22	1
	0	8 14 18		11	SEPT		
	Ocr.	`	1	11	Ocr	4	
	Nov.		1		Nov.		
	DEC.	. 16 10 8	16 4 81		DEC.	18 1 18	18 11 52
				J		1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. ) Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	rue New Moon. Full Ecl.)
B.C. 746. D. March. d. h. m. 29 10 21	JAN  O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT Nov	{26 8 25 10 2 47 11 15 31 10 4 15 9 16 59 8 5 48 { 7 18 27 {22 12 49 6 7 11 4 19 55 4 8 39 2 21 23 { 2 10 7	d. h. m.  12 0 12  26 5 57  10 10 28  11 19 9  10 2 54  9 10 36  7 19 20  7 6 5  22 17 42  5 19 33  4 11 42  4 5 54  3 0 49  2 19 0	B.C. 743. G. March. d. h. m. 29 3 50	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT O NOV	8 5 18 6 17 57 8 6 41 6 19 25 { 6 8 9 21 2 31 4 20 53 4 9 37 2 22 21 { 1 11 5 30 23 49 30 12 33 { 14 6 55 29 1 17	d. h. m.  8 9 15  7 3 31  8 19 26  7 8 23  6 18 36  20 18 15  5 2 48  4 10 3  2 17 27  1 1 58  30 12 19  30 1 1  14 15 45  28 16 5
745. c.b. 23 16 18	JAN. O FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT. OCT. NOV. DEC.	24 4 43 22 17 27 22 6 11 20 18 55	1 11 10 15 10 39 31 0 37 29 11 23 29 19 55 28 3 5 27 9 53 25 17 26 25 2 50 28 14 55 22 6 7 22 0 2 20 19 28 20 14 46	742. F. 29 9 39	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT. OCT. O Nov. DEC.	27 4 13 25 16 57 (10 11 19 25 5 41 23 18 25 28 7 9 21 19 58	28
744. A. 28 22 2	APRII MAY JUNE JULY AUG. SEPT. OCT. NOV.	17 10 36 16 23 20 15 12 4 15 0 48 13 13 32 12 2 16 11 15 0	17 28 9 19 10 50 17 19 53 17 8 12 15 9 51 14 16 58 18 1 12 34 11 12 34 11 12 34 11 2 30 14 9 19 14 6 25 3 2		JAN. FEB. MAR. APRIL MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	14 1 46 13 14 30 12 3 14 11 15 58 10 4 42 8 17 26 8 6 10 6 18 54	8 5 35

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 740. C. March. d. h. m. 28 21 17	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG O	d. h. m. 4 20 28 8 9 7 { 4 21 51 19 16 18 8 10 35 2 23 19 1 12 8 { 1 0 47 30 13 31 29 2 15 (12 20 37	d. h. m. 4 14 52 3 3 19 4 16 40 20 3 39 3 7 0 2 22 7 1 13 31 1 4 35 30 18 46 29 7 53 12 6 9	B.C. 737. G.F. March. d. h. m. 28 14 44	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	d. h. m. 2 11 32 1 0 16 { 1 13 0 81 1 44 29 14 28 29 3 12 27 15 56 27 4 40 25 17 24 24 6 8 23 18 52 29 7 36	d. h. m. 2 22 36 1 9 47 1 19 8 81 2 58 29 10 25 28 18 21 27 8 56 26 16 0 25 6 55 24 0 22 28 19 16
739. B. 29 3 6	SEPT. OCT  NOV DEC  JAN FEB  OMAR  APRIL MAY . JUNE . JULY .  AUG  OSEPT  OCT	\\ 27 14 59\\ 27 3 48\\ 25 16 27\\ 25 5 11\\ 28 17 55\\ 22 6 39\\ 9 1 1\\ 28 19 23\\ 22 8 7\\ 21 20 51\\ 20 9 35\\ 19 22 19\\ 18 11 3\\ \{ 2 5 25\\ (16 23 47\) 16 12 31	27 20 6 27 7 89 25 18 48 25 5 34 28 16 2 22 2 26 9 14 8 28 18 17 22 1 11 21 14 32 20 5 20 19 21 10 18 13 16 1 18 2 17 4 56 16 19 38	736. E. 28 20 32	Nov DEC  O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT Nov DEC	22 7 36 21 20 20  5 14 42 (20 9 5 13 21 49 20 10 38 18 28 17 18 12 1 17 0 45 (1 19 7 (16 18 29 15 2 18 13 14 57 18 3 41 11 16 25 (11 5 9	22 14 8 22 7 81 5 8 0 20 22 28 19 10 21 20 19 48 19 3 25 18 10 11 16 17 12 2 1 1 16 1 32 14 12 16 13 1 59 12 18 43 11 13 87 11 9 14
738. A. 29 8 55	APEIL MAY JUNE JULY AUG. O SEPT. OCT.	14 13 59 18 2 44 (11 15 28 (26 9 50 18 4 12 11 16 56 11 5 40 9 18 24 9 7 8 (7 19 52 (22 14 14	26 18 32 18 2 29 11 11 18 10 20 58 9 8 18 8 21 52 7 13 36 12 21 0 0 16 6 6 52 6 0 37 4 17 43		JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT. OCT. Nov.	21 3 56 5 22 18 4 11 2 2 28 46 2 12 30	21 2 55 5 17 4 4 0 54 2 10 44 ( 1 23 1 81 14 8 30 8 29 15 13 8

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equirox.	Month.	Mean New Moon. O Full Ecl.)	rue New Moon. Full Ecl.)
B.C. 734. c. March. d. h. m. 29 8 10	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov	d. h. m.  28 15 26  27 4 10  28 16 54  27 5 38  26 18 22  25 7 6  24 19 50  23 8 34  21 21 18  21 10 2  19 22 46	d. h. m.  28 22 23  27 15 28  29 5 52  27 17 23  27 2 30  25 10 12  24 17 32  23 1 33  21 11 3  20 22 37  19 12 29		JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT	d. h. m.  25 6 36 2 23 19 20 2 25 8 4 { 9 2 26 { 23 20 48 2 23 9 32 2 21 22 16 2 21 11 0 19 23 44 18 12 28 { 3 6 50	### Full Ect.)    d. h. m.     25
733. B.A. 28 18 59	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT O NOV. DEC.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	24 16 36 7 23 46	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	OCT Nov DEC  JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov. DEC.	16 13 56 16 2 40 14 15 25 13 4 9 14 16 53 13 5 37 12 18 21 11 7 5 10 19 49 9 8 33 7 21 17 7 10 1	18 6 15 16 17 44 16 4 40 14 15 10 13 1 20 14 11 37 12 22 39 12 11 1 11 1 2 10 16 28 9 8 43 8 0 56 7 16 29 6 6 50 5 19 44
732. g. 28 19 48	JAN. FEB. MAR. APRIL O MAY JUNE JULY AUG. SEPT. O OCT. NOV. DEC.	4 21 48 6 10 88 4 28 1 19 17 8 4 12 9 3 0 4 2 18 2 1 2 1 30 14 5	3 4 17 15 2 6 9 15 6 5 1 2 8 19 18 5 0 4 17 1 4 3 7 4 8 2 20 3 2 1 8 6 30 18 3 0 29 4 4 2 13 15 5 14 28 15 1 8 27 2	2 D.C.  8 8 28 13 1  5 1  0 6 6  2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	JAN. FEB. O 4 MAR. APRII MAY JUNE JULY O AUG. SEPT. OCT. NOV. DEC.	1 14 26 1 3 10 30 15 54 29 4 38 28 17 22 (12 11 44) (27 6 6 25 18 50 25 7 31 23 20 18	30 5 50 28 18 12 28 8 55 12 9 53 3 27 1 41 25 19 33 25 13 20 3 24 5 56

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Menn New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 728. B. March. d. h. m. 28 19 3	JAN  C FEB MAR APRIL MAY . JUNE . JULY . C AUG SEPT OCT Nov DEC	d. h. m.  21 21 46  { 5 16 8  { 20 10 30  21 23 14  20 11 58  20 0 42  18 13 26  18 2 10  { 1 20 32  { 16 14 54  15 3 38  14 16 22  13 5 6  12 17 50	d. h. m.  22 8 42 5 13 31 20 18 45 22 8 5 20 10 28 19 17 54 18 2 28 17 13 12 2 1 17 16 2 43 14 19 7 14 13 35 13 8 48 18 3 12	B.C. 725. F.E. March. d. h. m. 28 12 29	JAN . FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV	d. h. ni.  19 12 56 18 1 40 18 14 24 17 3 8 {16 15 52 {81 10 14 15 4 36 14 17 20 13 6 4 11 18 48 11 7 32 {9 20 16 24 14 88 9 9 0	d. h. m.  19 16 56 18 10 55 19 2 87 17 15 81 17 1 47 81 0 59 15 10 7 14 17 89 18 1 28 11 10 14 10 20 50 9 9 81 25 0 20 9 0 26
727. A. 20 0 52	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC	{11 6 85 26 0 57 9 19 19 11 8 3 9 20 47 9 9 81 7 22 15 { 7 10 59 22 5 21 5 28 48 4 12 27 4 1 11 2 18 55 { 2 2 30 81 15 28 30 4 7 28 16 52	11 19 25 25 18 49 10 8 46 11 19 18 10 3 36 9 10 35 7 17 18 7 0 51 22 11 9 5 10 20 3 22 35 3 13 56 2 7 57 2 3 27 31 22 43 30 16 11	724. D. 28 18 18	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT O NOV DEC	7 21 44 6 10 20 7 23 13 6 11 57 { 6 0 41 20 19 3 4 13 25 4 2 9 2 14 53 { 1 8 87 80 16 21 80 5 5 { 18 28 27 28 17 49 28 6 83 26 19 17	7 17 5 6 10 42 8 4 9 6 20 28 6 10 87 20 10 83 4 22 88 4 8 44 2 17 48 1 2 38 30 12 3 20 22 30 14 5 48 28 10 12 27 28 18
25 6 41	MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov O DEC	28 16 52 30 5 36 28 18 20 28 7 4 26 19 48 26 8 32 24 21 16 23 10 0 22 22 44 21 11 28 6 5 50 21 0 12	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	723. c. 20 0 7	FEB  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  SEPT  OCT  Nov  DEC	25 8 1 26 20 45 25 9 29 24 22 18 28 10 57 22 28 41 21 12 25 20 1 9 19 13 58 18 2 87	25 18 29 25 4 48 26 20 46 25 12 42 25 8 52 23 17 48 28 6 5 21 17 17 20 8 50 19 14 19 18 1 2 17 12 0

		1	11				
Mean Vernal	Month.	Moon.	True New Moon.	Mean Vernal	Month.	Moon. M	ie New
Equinox.		(O Full Ecl.)	Full Ect.)	Equinox.		() Full Ecl.) () F	uii Eci.)
B.C. 722.		d. h. m.	d. h. m.	B.C. 719.		d. h. m. d	. h. m.
в.	JAN	16 4 6	15 23 24	E.	JAN	12 19 16 18	7 8
March. $d. h. m.$	FEB	14 16 50	14 11 18	March. $d. h. m.$	Feb	11 8 0 11	18 8
29 5 56	MAR	(16 5 34	16 0 1	28 23 22	MAR	12 20 44 13	1
	0	80 23 56	31 11 17		APRIL	11 9 28 11	1 10 40
	APRIL	14 18 18	14 13 49		MAY .		0 17 49
	MAY .	14 7 2	14 4 36		June .		9 1 36
	June.	12 19 46	12 19 58		July.	1	8 11 6
	July.	12 8 30	12 11 18		Aug		6 23 13
	Aug	10 21 14	11 1 58		SEPT		5 14 18
	SEPT	9 9 58	9 15 43		Oct	5 13 52	5 8 0
	0	21 4 20	23 14 45		Nov.	4 2 36	4 3 10
	Ocr.	8 22 42	9 4 30		DEC	3 15 20	3 22 16
	Nov.	7 11 26	7 16 28	III		2 4 5	2 15 43
	DEC.	. 7 0 10	7 3 45	718.	JAN.	16 22 27	16 16 27
721.	JAN.	5 12 55	5 14 28	11		(31 16 49	
A.G.	FEB.	4 1 39	4 0 29	11	FEB.		1 6 31
28 11 4	1		4 10 28	3	. 3.5	(2 5 33	2 18 20
20 22 2	O	19 8 45		11 29 5 1	1 MAR.	(91 10 11)	1 3 32
	APRII	0 0 7		c	APRI	- 1	30 10 58
	MAY	0 45 54		5	MAY		29 17 37
	14222	(1 4 8	$\frac{1}{5}$ (31 21	8	June		28 0 38
	June	(30 17 19	9 30 11 5	3	0	∫13 2 51	13 7 22
	JULY	00 0	3 30 3 5	6	July	1 1	27 9 5
	Aug.	00 10 4	7 28 20 8	31	Aug.		25 19 56 24 9 49
	0		9 12 2 1	7	SEPT	1 04 44 0= 1	24 9 49 24 2 39
	SEPT		1 27 12 4	17	Ост.	00 0	22 21 37
	Oct.	. 26 20 1		$2 \parallel$	Nov	00 10 59	22 17 11
	Nov.	. 25 8 5	9 25 17	49	DEC	22 12 00	
	DEC.	. 24 21 4	$3 \mid 25 \mid 6$	<sup>1</sup> 717.	. 0	$\int 6 715$	6 6 3
700	Jan.	. 23 10 2	27 23 16	37 С.В.	Jan		21 11 39 20 3 42
720 F.	FEB.	01 00 1	1	<b>4</b> 3	FEB		20 3 42 20 16 43
	0	(817		14 28 11	0 MA		19 2 49
28 17		K 00 44		19	API	10 4 69	18 10 47
25 17	APR			42	MA	10 17 17	16 17 43
	MA	0.4 40	23 21 3	59	Jun	1 11 90	1
	Jun	00 0	7 19 15	8	-	, II	1
	Jul		V-   -	41		11 10 15	1
	Au	140.0	35 17 20			10 7 90	10 10 50
		)	57 1 18	!!	1	10 00 15	
	SEI	مہ میکا	19 16 14	11	Oc	v 11 8 57	10 00 70
	Oc.		3 16 8	14	1	c. (10 21 4	1
	No	v 14 17		59	1		3 25 21 56
	DE	c 14 6	31 14 17	40			
1		1					

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Menn New Moon, (○ Full Ect.)	True Naw Moon,
B.C. 716.	d i rimologic Straditica (m. ).	d. h. m.	d. h. m.	B.O. 713. E.D.	- man department of p	el. h. m.	el. 11. 114.
March.	JAN	9 10 26	9 11 22	March.	JAN.	7 1 86	6 22 1
d. h. m.	FEB	7 28 10	8 5 52	d. h. m.	Fen	5 14 20	5 9 22
28 16 49	MAR.	9 11 54	9 22 41	28 10 15	MAR	6 8 4	5 21 20
	APRIL	8 0 88	8 12 58		Armil	g 4 15 48	4 10 17
	MAY.	7 18 22	8 0 29		()	119 10 10	19 19 17
1	June.	6 2 6	6 9 45		MAY .	4 4 82	4 0 25
	Jura.	5 14 50	5 17 41		JUNE .	2 17 16	2 15 29
	Aug	4 8 84	4 1 22		T	(260	2 6 58
	SEPT	2 16 18	2 9 44		July .	(81 18 41	81 22 15
	Oct	1252	1 19 88		Aug	80 7 28	80 12 45
1	001.	181 17 46	81 7 15		SEPT	23 20 12	29 2 20
	Nov	80 6 80	29 21 1		O	(18 14 81	18 2 12
	DEC	29 19 14	29 12 40		Ocr	(28 8 56	28 14 55
					Nov	26 21 40	27 2 89
715.	JAN	23 7 59	28 5 40		DEC	26 10 21	26 18 85
a.	FEB.	26 20 48	26 23 5				
28 22 88	MAR.	28 9 27	28 15 58	712.	T	0100 0	04.00.46
20 22 00	APRIL	26 22 11	27 7 8	0.	JAN	24 28 8	21 28 46
	O	(11 16 88	11 10 0		FEB.	28 11 58	23 9 30
	MAY .	26 10 55	26 20 19	28 16 4	MAR	25 0 87	24 19 14
	JUNE .	21 28 89			APRIL	28 18 21	28 5 45
	JULY.	24 12 28			MAY.	23 2 5	22 17 45
	Aug.	23 1 7			June .	21 14 49	21 7 86
		1	23 2 12		July.	21 8 88	20 28 9
	SEPT.	21 18 51	21 11 29		Avo	19 16 17	19 15 45
	Oct	21 2 85	20 21 81		SEPT	18 5 1	18 8 88
	0	4 20 57	5 0 86		Ocr	17 17 45	18 0 89
	Nov.	(19 15 19	19 8 87		Nov	16 6 29	16 15 26
	DEC	19 4 8	18 20 58		DEC	15 19 18	16 4 81
714.	JAN	17 16 47	17 10 18	711.	JAN	14 7 57	14 15 51
F.	FEB	16 5 81	16 0 51	в.	Fen	(12 20 41	18 1 85
29 4 27	MAR	17 18 15	17 16 15		O	27 15 8	27 20 42
	APRIL	16 6 59	16 8 6	28 21 58	Man	14 9 25	14 10 9
İ	0	1 1 21	1 2 27	1	APRIL	12 22 9	12 18 14
	MAY .	15 19 48	15 28 41	1	MAY .	12 10 58	12 2 46
'	June .	14 8 27	14 14 18		Junk .	10 28 87	10 12 46
	JULY .	18 21 11	14 3 85		July .	10 12 21	10 1 1
	Aug	12 9 55	12 15 83		Aug	(9 1 5	8 15 52
į	SEPT	10 22 39	11 2 41		O	23 19 27	28 17 56
	Oct	(10 11 23	10 18 24	1	SEPT.	7 18 49	7 8 54
	0	25 5 45	24 23 48		Ост.	7 2 83	7 8 12
	Nov	9 0 7	9 0 6		Nov.	5 15 17	5 21 27
	DEC	8 12 51	8 10 58		DEC.	5 4 1	
					A/80	0 4 1	5 14 20
			·	-	The state of the	1	

Maan Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. Tull Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. Full Ecl.)
B.C. 710. A. March. d. h. m. 29 8 42	JAN FER  O MÁR APRIL MAY . JUNE . JULY .  O AUG SEPT OCT NOV DEG	d. h. m.  8 16 46 { 2 5 80} 16 23 52 8 18 14 2 6 58 { 1 19 42} 81 8 26 29 21 10 20 9 54 { 13 4 16} 27 22 88 26 11 22 26 0 6 24 12 50 24 1 34 22 14 18 6 8 40	d. h. m. 4 5 0 2 17 6 16 21 3 4 2 52 2 10 53 1 17 59 31 1 13 29 9 41 28 20 26 18 8 59 27 10 5 26 2 41 25 21 25 24 16 51 24 11 20 28 3 32 6 2 58	B.C. 707. D. March. d. h. m. 28 21 8	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV O DEC	d. h. m.  29 20 40  28 9 24  29 22 8  28 10 52  27 23 36  {11 17 58}  26 12 20  26 1 4  24 13 48  23 2 32  22 15 16  21 4 0  { 5 22 22  {20 16 44  19 5 28  17 18 12	d. h. m. 30 0 31 28 18 11 30 9 42 28 22 34 28 8 56 11 7 47 26 17 31 26 1 22 24 9 28 22 18 40 22 5 28 20 18 11 6 8 55 20 8 49  19 1 0 17 18 3
28 9 81	FER MAR APRIL MAY - JUNE - O AUG SEPT OCT NOV. DEC.	21 3 2 21 15 46 20 4 80 19 17 14 18 5 58 17 18 42 { 1 13 4 { 16 7 26 14 20 10 14 8 54 12 21 88	21 16 45 22 3 5 20 11 11 19 18 2 18 0 43 17 8 22 1 18 17 15 18 0 14 6 21 18 21 53 12 15 56		MAR APRIL MAY . O JUNE . JULY . AUG. SEPT. OCT. NOV. O DEC.	15 9 52 13 22 36 12 11 20 12 0 4 10 12 48 25 7 10	25 13 55
708. 23 15 20	JAN. FEB. MAR. APRIX. MAY JUNE JULY AUG. SEPT- OCT. NOV. DEC. O	. 9 2 8	11 14 21 10 1 47 8 9 10 40 7 7 18 1 7 0 56 5 5 8 26 6 3 17 84 8 3 4 56 7 1 19 5 1 1 11 86 8 16 20 46	B.A. 28 8 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	JAN. FEB. MAR. APRI MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	. 7 8 1 7 15 45 6 4 29 5 17 16 4 5 57 3 18 41 ( 2 7 2 81 20 8 8 56 29 21 3 28 10 2	6 21 28 7 12 6 6 8 33 5 19 13 4 10 24 4 0 33 2 13 24 6 1 1 11 8 12 17 7 29 28 9

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. Tull Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.
B.C. 704.		d. h. m.	d. h. m.	B.C. 701.		d. h. m.	d. h. m.
G.	JAN.	26 11 50	26 7 51	D. C.	JAN	24 3 0	24 15 34
March.	FEB.	25 0 34	24 19 11	March. $d. h. m.$	FEB	22 15 44	23 2 20
d. h. m. 28 14 35	MAR.	26 13 18	26 7 19	28 8 1	MAR.	23 4 28	23 10 58
20 14 00		(10 7 40	10 18 49		APRIL	21 17 12	21 18 16
	APRIL	25 2 2	24 20 36		MAY .	21 5 56	21 1 13
	MAY.	24 14 46	24 11 6		June.	19 18 40	19 8 53
	JUNE .	23 3 30	23 2 28		July.	19 7 24	18 18 23
	JULY.	22 16 14	22 18 4		Aug.	17 20 8	17 6 35
	Aug.	21 4 58	21 9 18		SEPT.	16 8 52	15 21 51
	SEPT.	19 17 42	19 23 39		Oct.	15 21 36	15 15 45
		(4 12 4	3 22 53		Nov.	14 10 20	14 11 8
	0	19 6 26	19 13 0		DEC.	13 23 4	14 6 20
	Oct.	17 19 10	18 1 19		DEC	10 10 1	
	Nov.	1 . 1	17 12 41	700.	JAN	(12 11 48	12 23 49
	DEC.	17 7 54	11 12 41	В.	0	27 6 10	27 0 44
703.	JAN	15 20 38	15 23 7		FEB	11 0 32	11 14 29
F.	FEB	14 9 22	<b>14</b> 8 49	28 13 50	MAR.	12 13 16	13 2 7
28 20 24	MAR.	(15 22 6	15 <b>1</b> 8 12		APRIL	11 2 0	11 11 9
	0	30 16 28	31 5 23		MAY.	10 14 44	10 18 20
	APRIL	14 10 50	14 3 58		JUNE .	9 3 28	9 1 4
	MAY .	13 23 34	13 14 56		JULY.	8 16 12	8 8 8
	June .	12 12 18	12 3 45		O O	23 10 34	23 14 48
	JULY.	12 1 2	<b>11</b> 18 30		1 .	7 4 56	6 16 4
	Aug	10 13 46	10 10 49		Aug.	5 17 40	5 3 4
	SEPT	(9230	9 3 53		SEPT.	5 6 24	4 17 4
	0	23 20 52	23 10 37		Ocr.	3 19 8	3 10 4
	Oct	8 15 14	8 20 43		Nov.	3 7 52	3 5 3
	Nov.	7 3 58	7 12 27		DEC.	5 7 52	0 0 0
	DEC.	6 16 42	7 2 32			1 20 37	2 1
700				600	JAN. C	11	I
702.	JAN.	5 5 27	5 14 45	699.	JAN. C	$\binom{10}{31} \ 9 \ 21$	31 19 2
	FEB.	. 3 18 11	4 1 8	A.	Fw	51 9 21	01 10 2
29 2 18					FEB.	(122 5	
	0	20 1 17		11 28 19 39	MAR.	81 10 49	.
	APRIL	1		11	A	20.00.00	1)
	MAY		-	11	APRIL		29 18
	JUNE	1	1300 00 0		MAY		1
	July	1 9 51	1		June	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
		(50 22 55		11	T	17	
	Aug.	1	1	i i	JULY	,	
	0	13 5 41		13	Aug.		
	SEPT.	1 '		11	SEPT.	l .	
	Oct.	. 27 12 47		11 -	Oct.	24 3 57	
	Nov.	1		11	Nov.	1	
	DEC.	. 25 14 15	5 26 2 11	L	DEC.	. 22 5 25	5 22 0 :
l	1	,		H	1	1	1

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Mean Vornal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New T Moon. () Full Ecl.)	rue New Moon. Full Ecl.)
Vernal	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT. OCT NOV. DEC. JAN. FEB. MAR. APRIL MAY . O JUNE JULY AUG.	Moon. (O Full Ect.)  d. h. m.  { 5 28 48 20 18 10 19 6 54 20 19 38 19 8 22 18 21 6 17 9 50 ( 2 4 12 16 22 34 15 11 18 14 0 2 18 12 46 12 1 30 11 14 14 10 2 58 8 15 42 9 4 26 7 17 16 ( 7 5 5 22 0 1 5 18 3 5 7 2 8 20	Moon.  6 6 45 20 19 2 19 13 13 21 5 47 19 19 57 19 7 32 17 17 0 1 17 41 17 1 16 15 9 20 13 18 5 13 4 10 11 15 57 11 5 33 9 20 48 8 13 14 9 6 10 7 22 33 4 7 13 47 6 21 17 10 8 6 3 6 2 5 14 33 6 4 0 4	Equinox.  B.C. 695. C. March. d. h. m. 28 18 54	JAN FEB MAR APRIL O MAY . JULY . AUG SEPT OCT O NOV DEC  JAN FEB APRIL MAY JUNE JULY AUG.	Monn. (O Full Ecl.) (O Full E	Moon. Full Ecl.)  d. h. m.  17 6 38 15 17 28 17 4 51 15 17 14 1 2 42 15 6 59 18 21 55 18 18 35 12 5 19 10 20 26 10 10 35 24 10 25 8 28 39 8 11 34  6 22 25 5 8 15 6 17 29 5 2 43 4 12 47 8 0 28 2 14 13 1 5 55 30 22 56
	OCT.	$ \begin{cases} 1 & 21 & 8 \\ 81 & 10 & 9 \\ 15 & 4 & 9 \\ 10 & 10 & 9 \\$	34 1 20 18 31 6 2	2 2 37	SEPT. OCT. Nov. DEC.	. 29 12 44 . 29 1 28 . 27 14 12	29 16 15 29 8 53 28 0 1 27 13 14
696 p. 28 18	DEC	29 11 6 28 0 3 26 18 28 1 26 14 (11 9) 26 3 24 16 27 21 4 30 22 17 31 20 19 4 18 7 70 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	16 29 5 8 1 15 26 8 2 15 26 8 2 1 1 9 2 2 2 2 2 2 2 1 1 9 9 1 1 9 9	693 A.G. 24 14 41 28 6 9 57 41 15 55 7 44 4	Jan. Feb.  Mar Apr May Jun Jul Aug Sep Oct Nov	11. 23 5 55 22 18 37 21 7 2 20 20 3 3 3 1 17 21 3 17 10 1 15 28	24 9 51 7 10 3 47 9 24 18 1 3 23 1 43 7 22 9 57 1 20 19 45 5 20 8 0 9 18 22 59 1 3 2 8 83 17 16 20 7 17 11 0 1 16 5 35

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Fuli Ecl.)
B.C. 692. F. March. d. h. m. 28 12 21	JAN FEB O MAR APRIL MAY . JULY . AUG O SEPT OOCT Nov	d. h. m.  14 0 29 {12 13 13 {27 7 95 14 1 57 12 14 41 12 3 25 10 16 9 10 4 58 { 8 17 37 {23 11 59 7 6 21 6 19 5 5 7 49	d. h. m. 14 18 28 13 1 20 27 4 26 14 10 49 12 18 38 12 1 26 10 8 38 9 17 0 8 3 48 23 16 47 6 17 36 6 10 28 5 5 17 5 0 50	B.C. 689. c.n. March. d. h. m. 23 5 47	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT Nov	d. h. m.  11 15 39 10 4 23 10 17 7 9 5 51 8 18 35 { 7 7 19 22 1 41 6 20 3 5 8 47 3 21 31 3 10 15 1 22 59 { 1 11 43	d. h. m.  11 13 41 10 7 57 11 1 17 9 16 38 9 5 30 7 16 2 21 14 36 7 0 56 5 9 9 8 17 41 8 8 13 1 14 12 1 2 52
691. E. 28 18 10	DEC  JAN FEB O MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT Nov DEC	24 5 22	3 19 22 2 11 29 16 10 52 4 0 34 2 10 42 1 18 41 31 1 29 29 8 14 28 16 1 13 1 83 27 1 49 25 14 21 25 5 57 23 23 59 23 19 17	688. a. 28 11 36	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV O DEC	20 13 12 28 1 56 29 14 40 28 3 24 27 16 8 (11 10 30 (26 4 52 25 17 86 24 6 20 22 19 4 22 7 48 20 20 82 (5 14 54 (20 9 16	16 17 25 80 17 7 29 8 48 28 1 19 29 17 54 28 0 0 11 0 59 26 12 82 25 28 80 24 9 88 22 19 21 22 5 82 20 16 18 5 22 8 20 8 47
690. D. 23 28 59	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG . SEFT OCT. NOV	20 19 35 22 8 19 20 21 3 20 9 47 18 22 31 18 11 15 16 23 59 15 12 43 15 1 27		687. g. 28 17 25	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	18 22 0 17 10 45 18 23 29 17 12 18 17 0 57 15 18 41 15 2 25 18 15 9 12 3 58 11 16 37 10 5 21 9 18 5	11 20 52 10 8 4

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.  O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 680. E. March. d. h. m. 28 10 7	JAN. O FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	d. h. m. (1 13 9) 16 7 31 81 1 58 (1 14 37 81 3 21 29 16 5 29 4 49 27 17 38 (12 11 55 (27 6 17 25 19 1 24 7 45 23 20 29 22 9 13 21 21 57	d. h. m.  1 8 87 16 15 25 31 2 38  1 20 22 31 12 41 30 2 48 29 14 31 28 0 15 12 0 33 27 8 54 25 17 24 24 2 33 23 12 54 22 0 48 21 14 3	B.C. 677. B.A. March. d. h. m. 28 3 33	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT O Nov DEC	$\begin{array}{c} \textit{d. h. m.} \\ 28\ 17\ 8 \\ 27\ 5\ 47 \\ 27\ 18\ 31 \\ 26\ 7\ 15 \\ \{11\ 1\ 37 \\ \{25\ 19\ 59 \\ 24\ 8\ 48 \\ 23\ 21\ 27 \\ 22\ 10\ 11 \\ 20\ 22\ 55 \\ 20\ 11\ 39 \\ \left\{ \begin{array}{c} 4\ 6\ 1 \\ 19\ 0\ 23 \\ 18\ 13\ 7 \end{array} \right. \end{array}$	d. h. m.  28 15 9  27 1 29  27 12 16  26 0 9  11 10 4  25 18 32  24 4 25  28 20 20  22 12 81  21 4 14  20 18 58  3 18 45  19 8 25  18 20 26
679. p. 28 15 56	JAN FEB MAR APRIL MAY .  JUNE . JULY . AUG SEPT OCT Nov  DEC	20 10 42 18 23 26 20 12 10 19 0 54 18 13 38 { 2 8 0 17 2 22 16 15 6 15 3 50 13 16 84 13 5 18 {11 18 2 26 12 24 11 6 46	20 4 51 18 20 48 20 18 8 19 5 16 18 20 21 2 0 35 17 9 54 16 21 47 15 8 28 13 18 35 13 4 44 11 15 18 26 16 39 11 2 25	676. g. 28 9 22	JAN FEB MAR APRIL MAY . JUNE . JULX . AUG SEPT OCT NOV DEC	17 1 52 15 14 86 17 8 20 15 16 4 15 4 48 13 17 32 13 6 16 11 19 0 10 7 44 9 20 28 8 9 12 7 21 56	17 7 8 15 16 88 17 1 24 15 10 9 14 19 48 13 7 15 12 20 58 11 12 52 10 6 16 10 0 5 8 17 11 8 8 36
678. c. 23 21 45	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV. O	$ \begin{vmatrix} 1 & 2 & 50 \\ 15 & 21 & 12 \\ 30 & 15 & 34 \end{vmatrix} $	9 14 5 8 2 30 9 15 48 8 6 5 7 21 10 22 17 23 6 12 34 6 3 38 4 17 51 3 7 1 2 19 17 1 6 54 30 18 2 30 4 45	F. 28 15 11	FEB MAR O	$ \begin{cases} 4 & 23 & 24 \\ 6 & 12 & 8 \\ 21 & 6 & 30 \\ 5 & 0 & 52 \\ 4 & 13 & 36 \\ 3 & 2 & 20 \\ 2 & 15 & 4 \\ \begin{cases} 1 & 3 & 48 \\ 30 & 16 & 32 \\ 14 & 10 & 54 \\ 29 & 5 & 16 \\ 28 & 18 & 0 \\ 27 & 6 & 44 \\ 26 & 19 & 28 \\ \end{cases} $	28 18 50 27 13 42

100 FT							
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
	JAN FEB O	d. h. m.  25 8 18  28 20 57  {10 15 19  25 9 41  28 22 25  28 11 9  21 28 58  21 12 37  20 1 21  { 8 19 48	d. h. m. 25 21 39 24 9 25 10 11 42 25 18 40 24 2 10 23 8 53 21 15 56 21 0 26 19 11 21 4 0 44 18 1 18 17 18 18 16 13 14	B.C. 671. A. March. d. h. m. 28 14 26	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	d. h. m.  7 5 1  121 23 23  20 12 7  22 0 51  20 13 35  20 2 19  18 15 3  3 9 25  18 3 47	d. h. m.  7 14 23 21 21 26 20 15 15 22 8 14 20 23 27 20 12 23 18 23 9 2 21 32 18 8 25 16 17 6 15 2 3 14 11 55 3 12 23 2 7 12 11 32
673. p.c. 28 2 49	JAN. FRB. O MAR. APRI MAY JUNE JULY AUG. O SEPT OCT. NOV. DEC.	. 18 18 8 12 7 1 . 11 19 5 . 10 8 4 . 9 21 2 . 8 10 1 . 23 4 8 . 6 22 5 . 6 11 8 . 5 0 9	6 13 19 18 8 27 18 48 0 14 8 12 4 12 18 14 8 12 2 7 2 10 8 57 6 9 15 48 10 7 23 48 32 23 8 5 54 6 9 4	28 20 15 7 7 7 9 8 8 4 4 9 9	JAN. FEB. MAR. APRIH MAY JUNE O JULY AUG. SEPT. Oct. Nov. DEC.	11 9 4 9 22 2 9 11 (7 23 5 22 18 1 7 12 5 6 1 2 4 14 4 2 4 (2 4	3 9 16 30 0 11 8 27 4 10 0 37 8 9 16 14 52 8 6 41 14 22 8 16 36 7 19 32 20 6 7 1 4 4 17 37 48 4 3 55 32 2 14 25 16 2 1 16
. 672. B. 28 8	APE MA JUN JUN AU SEI OCT	1 14 3 8 1 16 4 80 17 29 6 28 18 6. 27 7 7. 25 20	84     1     21     8       18     3     14     4       2     2     4       46     1     16       30     31     1       14     29     8       58     28     16       42     27     0       26     25     10       10     24     21       54     23     11	43 28 2 54 14 15 55 21 30 11 55	FEB.  4 MAI APR MAY C JUN JUL AUC SEP OCT	30 5 28 18 29 7 11L 27 19 27 8 21 32 25 10 30 23 22 21 31 22 0 32 22 33 22 34 22 0 35 22 0 36 22 0 37 22 11 38 22 0 38	44 30 0 20 28 28 12 51 12 29 2 21 56 27 16 52 40 27 8 7 2 11 0 25 24 25 23 25 8 25 14 2: 52 24 4 20 36 22 17 20 20 22 5 2

Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.	-	(O Full Ecl.)	(O Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
B.C. 668.		d. h. m.	d. h. m.	B.C. 665.		d. h. m.	d. h. m.
D. March.	JAN	18 14 33	18 14 19	A.G. March.	JAN	16 5 43	16 18 46
d. h. m.	FEB	17 3 17	17 0 23	d. $h.$ $m.$	FEB	14 18 27	15 7 55
28 7 53	Mar	18 16 1	18 10 35	28- 1 19	MAR	15 7 11	15 18 14
	APRIL	17 4 45	16 21 35		APRIL	13 19 55	14 2 24
	0	$\int 1 23 7$	2 9 32		MAY.	13 8 39	13 9 16
	MAY.	(16 17 29	16 9 59		JUNE.	11 21 23	11 16 1
	June.	15 6 13	15 0 5		July.	11 10 7	10 23 40
1	July.	14 18 57	14 15 36		Aug	9 22 51	9 9 20
	Aug	13 7 41	13 7 57		SEPT	8 11 85	7 21 48
	SEPT	11 20 25	12 0 15		Ост	8 0 19	7 13 22
	Oct	$\int 11 \ 9 \ 9$	11 15 50		Nov	6 13 3	6 7 32
	0	(26 3 31	25 15 33		Dec	6 1 47	6 3 4
	Nov.	9 21 53	10 6 11				
	DEC	9 10 37	9 19 0	664.	JAN	4 14 31	4 22 15
667.	JAN	7 23 21	8 6 19	F.	FEB	f 3 3 15	3 15 32
c.	FEB	6 12 5	6 16 14		0	17 21 37	17 17 1
28 13 42	MAR	8 0 49	8 1 4	28 7 8	MAR	4 15 59	5 5 56
	APRIL	6 13 33	6 9 30		APRIL	3 4 43	3 17 16
	0	121 7 55	21 19 25		MAY .	2 17 27	3 2 4
	MAY .	6 2 17	5 18 23		JUNE.	∫ 1 6 11	1 9 17
	June.	4 15 1	4 4 42		JUKE.	\log18 55	30 16 4
	July.	4 3 45	3 17 11		July.	30 7 39	29 23 28
1	Aug	2 16 29	286	<u> </u>	0	<i>§</i> 14 2 1	<b>14 4</b> 55
1	SEPT	∫ 1 5 13	1 1 1		Aug	28 20 23	28 8 30
	DEI 1	30 17 57	30 18 59		SEPT	27 9 7	26 19 55
1	0	∫15 12 19	15 3 45		Oct	26 21 51	26 10 7
	Oct	130 6 41	30 12 49		Nov	25 10 35	<b>25 2 5</b> 6
	Nov	28 19 25	29 5 22		Dec	21 23 19	24 21 30
	DEC	28 8 9	28 19 47				
666.	JAN	26 20 54	27 7 51	663.	JAN	23 12 4	23 16 27
В.	FEB	25 9 38	25 17 43	E.	0	∫ 7 6 26	7 7 48
€3 19 30	MAR	26 22 22	27 1 54		FEB	122 0 48	22 10 14
	0	ſ10 16 44	10 22 11	28 12 57	MAR	23 13 32	24 1 45
	APRIL	25 11 6	25 9 13	1	APRIL	22 2 16	22 14 27
	MAY .	24 23 50	24 16 38		MAY.	21 15 0	22 0 31
	JUNE.	23 12 34	23 1 18		June.	20 3 44	20 8 53
	JULY.	23 1 18	22 12 10		July.	19 16 28	19 16 27
	Aug	21 14 2	21 1 56		. 0 .	∫ 3 10 50	3 5 33
	SEPT	20 2 46	19 18 31		Aug	18 5 12	18 0 18
	0	<b>∫ 4</b> 21 8	4 19 36		SEPT	16 17 56	16 9 18
	Ост	19 15 30	19 13 8		Ocr	16 6 40	15 20 4
	Nov	18 4 14	18 8 26	}	Nov	14 19 21	14 8 56
1	Dec	17 16 58	18 2 43		DEC	14 8 8	13 23 54
	!	1	<u> </u>		Ì	1	

B.C.				Equinox.		(O Full Ecl.)	Moon. Full Ecl.)
March. d. h. m. 28 18 45	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC  APRIL MAY . JUNE . JUNE . JUNE . JUNE . JUNE . JUNE . JUNE . OCT NOV OCT	24 0 17 28 18 1 22 1 45 6 20 7	24 2 57 23 13 80 22 0 15 7 0 39	B.C. 659. G. March. d. h. m. 28 12 12  658. F. 28 18 1	JAN FEB APRIL MAY . O JUNE . JULY . AUG SEPT OCT  NOV DEC  JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	d. h. m.  9 12 2 8 0 47 9 18 31 8 2 15 7 14 59 92 9 21 6 3 43 5 16 27 4 5 11 2 17 55 { 2 6 39 81 19 23 { 15 13 45 80 8 7 29 20 51  28 9 35 26 22 19 28 11 3 26 23 47 26 12 31 25 1 15 24 13 59 23 2 43 21 15 27 21 4 11 19 16 55 19 5 39	d. h. m.  9 13 32 7 23 34 9 9 22 7 19 37 7 7 2 22 17 21 5 20 8 5 11 0 4 3 9 2 19 50 2 12 9 (1 3 24 15 3 10 30 17 10 30 5 15  28 15 48 27 0 51 28 9 11 26 17 30 26 2 50 24 14 4 24 3 48 22 19 53 21 13 41 21 7 59 20 1 28 19 17 7
660. A. 28 6 23	JAN Feb Mar	. 20 4 42	18 10 26 19 28 7	27 23 50	Jan. Feb. Mar.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	APRIL MAY O JUNE JULY AUG. SEPT. OCT. Nov. O DEC.	. 18 6 10 2 0 33 16 18 54 16 7 38 14 20 22 13 9 6 12 21 50 (11 10 3 26 4 5	0 18 8 41 2 2 0 50 4 16 19 8 8 16 10 24 2 15 1 5 6 18 14 56 0 18 3 44 4 11 15 44 6 25 28 4		APRII MAY JUNE JULY AUG. SEFT. O OCT. NOV. DEC.	15 8 36 14 21 20 13 10 4 12 22 48 11 11 32 10 0 16 24 18 38 9 18 0 8 1 44	15 9 26 14 16 33 13 0 22 12 10 1 10 22 20 3 9 13 88 3 24 18 55 9 7 30 4 8 2 48

161 M

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
B.C. 644. B. March. d. h. m. 28 3 24	JAN  O FEB MAR APRIL MAY .	d. h. m. 23 4 36 6 22 58 21 17 20 28 6 4 21 18 48 21 7 32 19 20 16	d. h. m. 23 0 24 7 8 24 21 17 23 23 10 19 22 2 10 21 16 18 20 4 28	B.C. 641. F.E. March. d. h. m. 27 20 51	Jan Feb Mar April May . O June .	d. h. m. 20 19 46 19 8 30 19 21 14 18 9 58 17 22 42 { 1 17 4 { 16 11 26	d. h. m. 20 22 15 19 7 49 19 17 6 18 2 51 17 13 51 2 0 87 16 2 45
	JUNE . JULY .  O AUG SEPT OCT Nov DEC	19 20 16 19 9 0 { 3 3 22 {17 21 44 16 10 28 15 23 12 14 11 56 14 0 40	20 4 28 19 14 58 2 14 87 18 0 88 16 9 58 15 19 53 14 6 86 13 18 17		JULY . AUG SEPT OCT Nov O	16 0 10 14 12 54 13 1 38 12 14 22 (11 3 6 25 21 28 10 15 50	15 17 88 14 10 5 13 8 16 12 20 8 11 11 52 25 11 88 11 1 58
643. A. 28 9 13	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	12 13 28 11 2 8 12 14 53 11 3 87 10 16 21 9 5 5 8 17 49 7 6 83 5 19 17 5 8 1 3 20 45 { 8 9 29 { 18 3 51	12 6 55 10 20 38 12 11 18 11 2 42 10 18 18 9 9 27 8 23 34 7 12 26 6 0 17 5 11 27 3 22 24 3 9 15 18 8 37	640. D. 28 2 40	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	9 4 35 7 17 19 9 6 3 7 18 47 7 7 31 5 20 15 5 8 59 3 21 48 2 10 27 { 1 23 11 (31 11 55 30 0 39	9 18 58 8 0 11 9 8 55 7 16 50 7 0 49 5 9 58 4 21 0 8 10 46 2 8 7 1 21 16 81 15 57 80 9 46
642. <sub>G</sub> .	Jan Feb	1 22 13 31 10 57 	1 20 4 31 6 59	639.	DEC	29 13 23	80 1 84 28 14 44
28 15 2	MAR  APRIL MAY  O JUNE. JULY. AUG SEPT OCT NOV  O DEC	$ \begin{cases} 1 & 23 & 41 \\ 31 & 12 & 25 \\ 30 & 1 & 9 \\ 29 & 13 & 58 \\ 13 & 8 & 15 \\ 28 & 2 & 37 \\ 27 & 15 & 21 \\ 26 & 4 & 5 \\ 24 & 16 & 49 \\ 24 & 5 & 33 \\ 22 & 18 & 17 \\ 7 & 12 & 39 \\ 22 & 7 & 1 \end{cases} $	1 18 14 31 6 20 29 19 36 29 10 8 13 8 17 28 1 32 27 17 12 26 8 29 24 22 54 24 12 16 23 0 35 7 7 50 22 11 54	c. 28 <b>8</b> 29	FEB  MAR  O APRIL MAY . JUNE . JULY .  AUG  SEPT  O OCT  NOV DEC	26 14 51 28 3 85 (11 21 57 26 16 19 26 5 8 24 17 47 24 6 81 22 19 15 21 7 59 (6 2 21 20 20 48 19 9 27 18 22 11	27 1 18 28 9 47 12 0 11 26 16 59 25 28 55 24 7 89 28 17 19 22 5 48 20 21 18 6 8 29 20 15 17 19 10 48 19 5 58

Mean Vernal Equinox.	Month.	Moon.	True New Moon. Tull Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. O Full Ecl.)
B.C. 638. B. March. d. h. m. 28 14 17	JAN FEB MAR		d. h. m. 17 23 12 16 13 39 18 1 5 1 1 54 16 9 56 15 17 8 13 23 46 13 6 55 11 15 41 10 2 55	B.C. 635. E. March. d. h. m. 28 7 44	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG	d. h. m.  {14	d. h. m.  13 20 11 29 7 25 12 12 36 14 5 25 12 21 46 12 12 47 11 2 2 10 13 30 24 11 41 8 23 40
637.	1	25 11 10 10 5 32 8 18 16 8 7 0 6 19 45	25 16 56 9 17 9 8 10 14 8 5 11	634.	SEPT OCT Nov DEC JAN	7 7 58 6 20 42 5 9 26 4 22 10 8 10 55 18 5 17	7 9 21 6 19 10 5 5 35 4 16 47 3 4 48 18 18 26
A.G.	FEB.	5 8 29	5 18 44		FEB	1 23 39	1 17 42
27 20 6	MAR	$\int_{0.015}^{5} 21 \ 13$	6 10 24	28 13 33	Mar.	3 12 23 2 1 7	3 7 34 1 22 22
	APRIL MAY. JUNE.	\( \)20 15 85 \\ 4 9 57 \\ 8 22 41 \\ 2 11 25 \\ align*	20 10 4 4 23 3 4 8 57 2 16 52		MAY . June .	{ 1 13 51 (81 2 85 29 15 19	1 13 47 31 5 12 29 20 0 13 23 5
	JULY . AUG O SEPT	2 0 9 31 12 53 80 1 87 13 19 59 28 14 21	1 23 58 81 7 16 29 15 46 13 23 56 28 2 17		JULY AUG. SEPT. OCT.	29 4 3 27 16 47 26 5 31	29 9 44 27 22 21 26 10 6 25 21 20
	Oct Nov Dec	28 3 5 26 15 49 26 4 33	27 15 15 26 6 41 26 0 8		Nov. DEC.	23 19 43	7 22 0
636. F. 28 1 55	Jan Feb Mar	24 17 17 23 6 1 24 18 45	24 18 30 23 12 32 25 4 56	633. c.s. 27 19 22		. 19 22 39	20 16 33 21 3 52 19 16 15
	AFRIL MAY . JUNE . JULY . AUG SEPT OCT	23 7 29 22 20 13 21 8 57 20 21 41 19 10 25 17 23 9 17 11 53	28 18 55 23 6 22 21 15 47 21 0 4 19 8 13 17 17 7 17 3 21		MAY JUNE O JULY AUG. SEPT. OCT.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7 17 20 59 9 2 15 26 1 17 12 44 6 16 4 81 0 14 19 42 3 14 9 54
	Nov Dec	16 0 37 15 13 21	15 15 16 15 4 55		Nov. Dec.	40.4	

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 632.		d. h. m.	d. h. m.	B.C. 629.		d. h. m.	d. h. m.
Α.	JAN	10 17 16	10 21 34	E.D.	JAN	8 8 26	8 18 51
March.	FEB	9 6 0	9 7 18	March.	FEB	6 21 10	7 10 46
d. h. m. 28 1 10	MAR.	10 18 44	10 16 26	. d. h. m. 27 18 37	MAR.	7 9 54	7 23 36
-0 - 10	APRIL	9 7 28	9 1 35	2. 10 0.	APRIL	5 22 38	6 9 34
	MAY.	6 8 20 12	8 11 39		MAY.	5 11 22	5 17 25
	0	23 14 34	23 23 58	1	June .	4 0 6	4 0 11
	JUNE.	7 8 56	6 23 25	1	_	3 12 50	3 6 59
1	l	6 21 40	6 13 17	1	JULY.	(2 1 34	1 14 54
	JULY.				Aug	K	1
	Aug	5 10 24	5 5 10		~		81 0 55
	SEPT	3 23 8	3 22 18	1	SEPT	30 3 2	29 13 41
	Oct	3 11 52	3 15 42		Ocr. ,	29 15 46	29 5 26
	Nov	$\int_{-2}^{2} 0.36$	2 8 20		Nov	28 4 30	27 23 34
	0	16 18 58	16 8 37		DEC	27 17 14	27 18 52
	DEC	$\int 1 13 20$	1 23 24	,			
		131 2 4	31 12 30	628.	JAN	26 5 59	26 18 44
631.	JAN	29 14 49	29 23 33	c.	FEB	24 18 43	25 6 39
G.	FEB	28 3 33	28 8 47		0	(11 13 5	11 8 50
28 6 59	MAR.	29 16 17	29 16 51	28 0 26	MAR	126 7 27	26 20 45
	APRIL	28 5 1	28 0 29		APRIL	24 20 11	25 7 55
	0	(12 23 23	13 9 4		MAY .	24 8 55	24 16 44
1	MAY.	27 17 45	27 8 44	j i	JUNE .	22 21 39	23 0 12
	JUNE.	26 6 29	25 18 40		JULY.	22 10 23	22 7 23
1	JULY.	25 19 13			Aug.	20 23 7	20 15 20
	Aug.					( 4 17 29	4 19 30
,	SEPT	24 7 57 22 20 41	23 22 15		O Sept	19 11 51	19 0 54
1	OCT.		22 15 47	ŀ	Ост	19 0 35	18 12 41
			22 10 33		Nov.	17 13 19	17 2 53
[	Non	13	5 21 21		D	17 13 19	16 19 18
	Nov.	20 22 9	21 5 8	)	DEC	11 2 5	10 19 10
	DEC	20 10 53	20 22 8		_		
630.	JAN	18 23 37	19 12 38	627.	Jan	15 14 47	15 18 11
F.	Feb	17 12 21	18 0 23	В.	FEB	$\{14 \ 8 \ 81\}$	14 7 20
28 12 48	MAR	19 1 5	19 9 42		0	128 21 58	( 1 0 18
	APRIL	17 13 49	17 17 18	28 6 15	MAR	15 16 15	16 0 81
	0	$\int 2 811$	2 11 21		APRIL	<b>14 4</b> 59	14 15 41
	MAY .	17 2 33	17 0 9		MAY .	18 17 48	14 4 25
	JUNE.	15 15 17	15 7 17		JUNE .	12 6 27	12 14 51
	JULY.	15 4 1	14 15 52		July.	11 19 11	11 23 44
	Avg	13 16 45	13 2 52		Aug	<i>∫</i> 10 7 55	10 8 2
	SEPT	12 5 29	11 16 54		0	25 2 17	24 19 34
	Oct	ſ11 18 13	11 9 53		SEPT	8 20 39	8 16 42
	0	26 12 35	26 13 7		Ост	8 9 23	8 2 21
	Nov	10 6 57	10 4 54		Nov	6 22 7	6 13 29
]	DEC.	9 19 41	10 0 26		DEC	6 10 51	6 2 18
						'	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon.  Full Ecl.)
	JAN FEB O MAR APRIL MAY . JUNE . JULY . OCT NOV DEC JAN FEB. MAR APRIL MAY . JUNE . JULY AUG SEPT. OCT NOV. DEC O .	d. h. m.  4 23 36 3 12 20 18 6 42 5 1 4 8 13 48 8 2 32 1 15 16 6 1 4 0 80 16 44 6 14 11 6 29 5 28 27 18 12 27 6 56 25 19 40 25 8 24 23 21 8 22 9 52 22 22 36 21 11 20 21 0 4 19 12 48 19 1 32 17 14 16 16 3 0 15 15 44 14 4 28 6 13 17 12 28 11 3: 12 5 57 10 18 41 12 7 2: 10 20 9 10 8 5: 11 20 9 10 8 5: 11 4 6 23 15 5 11 4 6 23 15 5 11 4 6 23 15 5	d. h. m.  4 16 32 3 8 10 18 16 41 5 0 36 17 5 3 8 46 1 22 59 1 11 28 30 22 27 18 21 54 29 8 32 27 18 28 27 4 43 25 15 33 25 3 3  23 15 17 22 4 21 22 18 24 21 9 19 21 0 43 19 15 58 19 6 28 17 19 54 16 8 21 15 20 3 14 7 18 18 18 12 18 18 12 19 19 19 10 15 18 10 15 18 10 15 18 10 15 18 10 15 18 10 15 18 10 15 18 10 18 21 10 18 28 10 28 28 10 28 10 28 28 10 28 28 10 28 28 10 28 28 10 28 28 10 28 28 10 28 28 1	Equinox.  B.C. 623. D.  March. d. h. m. 28 5 30  622. C. 28 11 19  621. B.A. 27 17	JAN  FEB  MAR  APRIL  MAY .  O  JUNE .  JULY .  AUG  SEPT  OCT  NOV  O  DEC  JAN  FEB	d. h. m.  1 14 45 31 3 30  1 16 14 31 4 58 29 17 42 29 6 26 (13 0 48 27 19 10 27 7 54 25 20 38 24 9 22 23 22 6 22 10 50 (7 5 12 (21 23 34 20 12 18 19 1 2 20 13 46 19 2 30 18 15 14 17 3 58 16 16 42 15 5 26 13 18 10 11 8 25 11 19 36 11	d. h. m.  1 20 44 31 6 49  1 15 58 31 0 46 29 10 3 28 20 48 13 7 54 27 9 26 27 0 26 25 17 10 24 10 49 24 4 12 22 20 21 6 20 8 22 10 33 20 22 32 19 8 30 20 16 53 19 0 25 18 8 6 16 16 58 19 0 25 18 8 6 16 16 58 19 10 25 11 18 1 7 10 9 58 11 23 57 11 18 1 7 10 9 58 11 22 6 47 11 18 1 7 10 9 58 11 22 6 47 11 18 1 7 10 9 58 11 22 6 47 11 18 1 17 10 9 58 11 22 6 47 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 1 17 10 9 58 11 18 18 11 18 18 11 18 18 11 18 18 11 18 18 11 18 18 11 18 18 11 18 18 11 18 18 11 18 18 11 18 18 11 18 18 11 18 18
	DEC.	$\begin{array}{c c} 3 & 2 \\ 17 & 20 & 3 \end{array}$	1 3 9 2 23 17 15 5	11	Nov. Dec.	1	

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 620. G. March. d. h. m. 27 22 56	Jan Feb Mar	d. h. m. 27 18 40 26 7 24 27 20 8 11 14 30	d. h. m. 28 7 8 26 21 27 28 8 42 11 8 52	B.C. 617. p.c. March. d. h. m. 27 16 23	Jan  O Feb Mar	d. h. m.  25 9 50  { 9 4 12  23 22 34  24 11 18	d. h. m.  25 4 12  9 15 46  23 20 1  24 12 19  23 4 22
	MAY . JUNE . JULY . AUG SEPT O OCT Nov DEC	26 8 52 25 21 36 24 10 20 23 23 4 22 11 48 21 0 32 5 18 54 20 13 16 19 2 0 18 14 44	26 17 26 26 0 35 24 7 15 23 14 34 21 23 31 20 10 58 6 1 12 20 1 18 18 18 20 18 13 10		APRIL MAY . JUNE . JULY . O AUG SEPT OCT Nov	28 0 2 22 12 46 21 1 30 20 14 14 4 8 86 19 2 58 17 15 42 17 4 26 15 17 10	22 19 28 21 8 52 20 20 45 3 18 59 19 7 28 17 17 40 17 8 55 15 14 88
619. F. 28 4 45	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O Oct Nov Dec	17	17 8 19 16 2 18 17 17 42 81 17 44 16 6 16 15 16 10 14 0 14 18 7 82 11 15 10 10 0 0 25 7 87 9 10 44 7 28 44 7 15 0	616. B. 27 22 12	DEC  JAN  O FEB  MAR  APRIL MAY .  JULY .  O AUG  SEPT  OCT  NOV  DEC  JAN	15 5 54 {18 18 83 28 13 0 12 7 22 18 20 6 12 8 50 11 21 81 10 10 18 {9 23 2 24 17 24 8 11 46 7 0 80 6 13 14 5 1 58 4 14 42 {8 8 27	15 1 89  13 18 19  29 2 29  12 1 41  13 14 55  12 5 10  11 20 15  10 11 89  10 2 48  24 6 38  8 16 57  7 6 10  6 18 30  5 6 9  4 17 16  8 8 57
618. E. 28 10 84	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	6 12 17 5 1 1 6 18 45 5 2 29 4 15 18 8 8 57 2 16 41 { 1 5 25 80 18 9 29 6 58 28 19 87 27 8 21 26 21 5	6 8 7 5 2 8 6 19 40 5 11 50 5 1 46 8 18 28 2 28 6 1 7 46 80 16 22 29 1 40 28 12 7 27 0 2 26 18 25	28 4 0	O FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT Nov DEC	$ \begin{cases} 17 & 21 & 49 \\ 1 & 16 & 11 \\ 8 & 4 & 55 \\ 1 & 17 & 89 \\ 1 & 6 & 23 \\ 80 & 19 & 7 \\ 29 & 7 & 51 \\ 14 & 2 & 13 \\ 28 & 20 & 85 \\ 27 & 9 & 19 \\ 25 & 22 & 8 \\ 25 & 10 & 47 \\ 28 & 28 & 81 \\ 28 & 12 & 15 \\ \end{cases} $	18 5 48 1 14 15 3 0 29 1 11 14 30 28 8 30 12 82 29 8 81 18 28 4 28 19 81 27 11 48 26 8 84 25 18 19 24 7 44 28 19 41

Mean   Equinox.   Month.   M					<u>-</u> -			
614. 6. March. 6. March. 28 9 49  MAR. 20 15 12 20 8 59  MAX. 20 18 44 20 15 37  MAX. 20 2 2 88 20 16  April. 20 18 12 20 8 59  MAX. 20 3 56 19 18 40  Juns. 18 16 40 18 6 12  July. 18 5 24 17 20 8  Aug. 16 18 8 16 12 7  Sept. 15 6 52 15 5 89  Oct. 14 19 86 14 23 84  Nov. 14 18 9 86 14 23 84  Nov. 14 19 86 14 23 84  Nov. 15 8 7 6 23 15 58  MAX. 11 9 48 11 21 6  Feb. 27 15 88  MAX. 20 7 21 28 6 15 55  July. 30 7 6 23 15 47  June. 30 17 18 3 56  Aug. 30 0 0 0 9 0 83  MAX. 40 0 0 0 9 0 83  MAX. 40 0 0 0 0 9 0 83  MAX. 40 0 0 0 0 9 0 83  MAX. 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vernal	Month.	Moon.	Moon.	Vernal		Moon.	Moon.
March. d. h. m. 28 9 49  Mar. 28 9 49  Mar. 20 15 12 20 8 59  Mar. 18 16 40 18 6 12  Jun. 18 5 24 17 20 8  Aug. 16 5 25 15 5 89  Oct. 14 19 36 14 23 34  Nov. 18 8 20 18 16 39  O {28 2 42 27 17 15  Dec. 12 21 4 18 8 0  10 11 16 10 16 52  Arril 9 0 0 9 0 38  Mar. 10 11 16 10 16 52  Arril 8 8 12 48  Aug. 10 11 16 10 16 52  Arril 9 0 0 9 0 83  Mar. 10 11 16 10 16 52  Arril 8 8 12 48 7 53  Jun. 11 9 48 11 21 6 12 1 4 18 8 0  12 7 15 88  Mar. 10 11 16 10 16 52  Arril 8 10 1 1 16 10 16 52  Arril 9 0 0 0 9 0 83  Mar. 10 11 16 10 16 52  Arril 8 10 1 1 16 6 15 5  Jun. 10 11 16 10 16 52  Arril 10 17 6 14 12 6 144  Aug. 10 17 6 14 12 6 144  Aug. 10 17 6 13 18 26  Oct. 11 10 45 10 21 52  Nov. 11 9 48 11 21 6 16 16 15  Jun. 20 18 18 20 18 18 39  Oct. 21 21 4 18 80  610.  B. 21 18 18 19 9 7 87  Dec. 21 18 18 7 9 9 8 9 18 87  Dec. 22 16 31  Arril 8 2 26 8 13 66  Oct. 11 10 45 10 21 52  Nov. 10 11 16 10 16 52  Arril 10 17 6 13 18 26  Oct. 11 10 45 10 21 52  Nov. 21 16 11 30 16 6 15  Dec. 21 21 4 18 18 7 8 9 5  Arril 22 16 31  Nov. 28 21 2 28 11 21  Dec. 28 9 46 28 32 28  Oct. 30 18 34 20 18 18 29  Arril 10 17 6 21 17 17 8  Max. 11 9 48 11 21 6  Bell 18 19 7 17 0 49  Jun. 19 2 43  Arril 17 6 21 17 17 8  Arril 18 19 5 7 70 19  Jun. 11 9 48 11 21 6  Bell 18 10 17 12 22 42  Nov. 9 23 29 9 13 87  Dec. 19 12 18 9 7 87  Dec. 21 18 8 0  610. B. Bell 19 7 12 22 22  Nov. 9 23 29 9 18 87  Dec. 21 18 6 0  Oct. 11 10 45 10 21 52  Nov. 10 10 45 10 21 52  Nov. 10 10 45 10 21 52  Nov. 10 10 45 10 21 52  Nov. 11 10 45 10 21 52  Nov. 11 10 45 10 21 52  Nov. 11 10 45 10 21 52  Nov. 11 10 45 10 21 52  Nov. 11 10 45 10 21 52  Nov. 12 18 8 0 15  Arril 10 45 10 21 52  Nov. 11 10 45 10 21 52  Nov. 11 10 45 10 21 52  Nov. 11 10 45 10 21 52  Nov. 11 10 45 10 21 52  Nov. 11 10 45 10 21 52  Nov. 12 16 10 10 16 10			d. h. m.	d. h. m.			d. h. m.	d. h. m.
March   Feb.   20 18 44   20 15 87   28 9 49   Mar.   22 2 28 22 0 16 16   28 8 16   Mar.   18 17 37   19 7 18   Mar.   20 3 56 19 18 40   June   18 16 40   18 6 12 7   Sert.   15 6 52 15 5 89   Oct.   14 19 36   14 28 34   Nov.   18 8 20 18 16 39   Oct.   14 19 36   14 28 34   Nov.   11 9 48   11 21 6   Feb.   9 22 32   10 7 56   Mar.   19 10 11 16   Ol 16 52   Arrill   Sert.   3 15 40   3 5 82   Oct.   3 4 24   2 28 20   Nov.   3 1 2 2 2 2 2 2 2 3 2 0   Oct.   3 4 12 8   Oct.   3 3 15 40   Sert.   3 15 40   Sert.   3 15 40   Sert.   3 15 40   Sert.   3 15 40   Sert.   3 15 52   Sert.   3 15 20		JAN	22 1 0	22 6 16		JAN.	18 16 9	19 2 45
28 9 49 Mar.   22 2 28   22 0 16   28 8 16   Mar.   18 17 37   19 7 18    APRIL   20 15 12   20 8 59    MAY   20 8 56   19 18 40    JUNE   18 16 40   18 6 12    JULY   18 5 24   17 20 8    AUG.   18 9 17   12 22 42    SEPT.   15 6 52   15 5 89    OCT.   14 19 36   14 23 34    Nov.   (18 8 20 18 16 39    O   (28 2 42 27 17 15    DEC.   12 21 4   18 8 0    F.E.   Feb.   9 22 32   10 7 56    27 15 38 Mar.   11 9 48   11 21 6    F.E.   Feb.   9 22 32   10 7 56    27 15 38 Mar.   10 11 16   10 16 52    APRIL   9 0 0   9 0 83    MAY   6 14 12   6 1 44    AUG.   5 256   4 14 11    SEPT.   3 15 40   8 5 82    OCT.   3 4 24   2 28 20    Nov.   6 14 12   6 1 44    AUG.   5 256   4 14 11    SEPT.   3 15 40   8 58    OCT.   3 4 24   2 28 20    Nov.   6 16 11 30   16 6 15 5    JULY   4 16 38   5 0 0    (10 16 11 30   16 6 15 5    DEC.   27 20 5   28 8 26    27 21 27 MAR.   29 8 49   29 17 90    MAY   25 2 3 1   25 14 41    JUNE   25 2 3 1   25 14 41    JUNE   25 2 3 1   25 14 41    JUNE   25 2 3 1   25 14 41    JUNE   25 2 3 1   25 14 41    JULY   25 2 3 1   25 14 41    JULY   25 2 3 1   25 14 41    JULY   25 2 3 1   25 14 41    JULY   25 2 3 1   25 14 41    JUNE   25 2 18 18   22 0 88    OCT.   21 17 57    MAR.   29 8 49   29 17 90    MAR.   29 8 49   29 17 90    MAR.   27 10 17   27 7 84    JUNE   25 11 45    MAR.   26 2 31   26 20 58    APRIL   27 28   3 10 27    SEPT.   20 11 4 4 1 20 12 52    Nov.   24 0 29   23 10 27    SEPT.   22 14 11   22 22    AUG.   24 0 29   23 10 27    SEPT.   22 14 11   32 22    AUG.   24 0 29    APRIL   25 14 44   11    Nov.   25 24 18 18    OCT.   3 4 44   11    APRIL   17 6 21   17 17 8    MAY   16 19 5   17 049    MAY   18 20 18 8 16 12 7    Nov.   17 5 5 1 16 22 18    AUG.   18 10 10 15 5 10 17 0    APRIL   10 10 16 52    APRIL   10 10 16 52    APRIL   10 10 16 52    APRIL   10 10 16 52    APRIL   10 10 16 52    APRIL   10 10 16 52    APRIL   10 10 16 52    APRIL   10 10 16 52    APRIL   10 10 16 52    APRIL   10 10 16 52    APRIL   10 10 16 52    APRIL   10 10 10 10 10 10 10 10 10 10 10		FEB	20 13 44	20 15 37				
APRIL   20 15 12   20 8 59   MAX   20 8 56   19 18 40   June   18 16 40   18 6 12   July   18 5 24   17 20 8   Aug.   16 18 8   16 12   7   Sept.   15 6 52   15 5 39   Oct.   14 19 36   14 23 34   Nov.   (18 8 20 18 16 39   Oct.   12 21 4   18 8 0   18 16 39   Oct.   12 21 4   18 8 0   Oct.   12 21 4   18 8 0   Oct.   12 21 4   18 8 0   Oct.   12 21 4   18 8 0   Oct.   12 21 4   18 8 0   Oct.   12 21 4   18 8 0   Oct.   12 21 4   18 8 0   Oct.   12 21 4   18 8 0   Oct.   12 21 4   18 8 0   Oct.   12 21 4   18 8 0   Oct.		MAR.	1					
May . 20 8 56 19 18 40  June . 18 16 40 18 6 12  July . 18 5 24 17 20 8  Aug 16 18 8 16 12 7  Sept 15 6 52 15 5 89  Oct 14 19 86 14 28 84  Nov 18 8 20 13 16 89  O		APRIL	20 15 12		20 0 20			
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	June.	6 5 19	6 7 59		JUNE .	2 20 29	3 1 56
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	Aug.		1	11	Aug.	1	
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	Ост.	9 14 3		11	Ocr.	. 6 5 46	
	Nov.	. 8 3 2		. 11	Nov.		
	DEC.	. 7 16	4 7 8 48	3	DEC.	. 4 7 14	4 16 28
		1					

**************************************				Management for the state of the comments of the	-	A NEW YEAR OF PERSONS IN	. I. Carrie or the American State
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox,	Month.	Mean New Moon, (() Full Ecl.)	True New Mosen. (c) Full Ect)
B.C. 596.		d. h. m.	d. h. m.	B.C. 593.	h Tommelfook (BC Toosie Le	d. h. m.	d. h. m.
E.	JAN	2 19 59	8 4 28	18. A.	JAN	29 23 N3	281 1(1 1M)
March.	FEB	1 8 48	1 14 48	March. d. h. m.	Fkn	28 12 87	29 2 6
27 18 28	MAR	2 21 27	2 28 47	27 11 55	MAR	29 1 21	29 14 40
		( 1 10 11	180		Arnta	27 14 5	28 0 25
	APRIL	(80 22 55	80 16 17		MAY .	27 2 49	27 8 18
1	MAY .	80 11 89	80 1 40		Juna.	25 15 88	25 15 7
	Jung.	29 0 23	28 18 8		JULY.	23 4 17	21 22 17
	July.	28 18 7	28 2 55		Avo	28 17 1	23 6 40
	Aug	27 1 51	26 19 12		SEPT	22 5 45	21 17 8
	SEPT	25 14 85	25 18 8		Oct	21 18 20	21 6 10
	Our	25 8 19	25 7 80		Nov	20 7 18	10 21 M
	Nov	28 16 8	24 0 58		DEC	19 19 57	19 15 89
	0	(81025	8 1 58				
	DEC	28 4 47	28 16 80	592.	JAN	18 8 41	18 10 28
595.	T	21 17 82	22 5 85	0.	FKB.	16 21 26	17 4 84
D.	JAN Frb	20 6 16	22 5 85 20 16 11	27 17 48	Man.	18 10 10	1H 21 5
28 0 17	MAR.	21 19 0	20 10 11			2 4 82	2 4 1
20 0 21	APRIL	20 7 44	20 8 10		APRIL	16 22 54	17 10 68
į	MAY.	19 20 28	19 15 15		MAY .	16 11 88	16 22 11
1		(8 14 50	8 22 29		June.	15 0 22	15 7 17
*	June.	18 9 12	17 28 10		July.	14 18 6	14 15 15
	July .	17 21 56	17 8 56		Aug.	18 1 50	12 28 6
}	Aug.	16 10 40	15 21 28		SEPT	(11 14 81	11 7 46
	SEPT.	14 28 24	14 18 0		O	(26 B M	26 10 21
1	Ocr	14 12 8	14 7 8		Oct.	11 8 14	10 17 68
	Nov.	(18 0 52	18 2 28		Nov.	9 16 2	64 d Q
ľ	0	27 19 14	27 15 11		Dac.	9 4 46	8 19 61
	DEC	12 18 86	12 21 24				
594.	3			591.	JAN.	7 17 80	7 11 88
C.	JAN FEB	11 2 20	11 14 88	ν.	FKn.	6 6 14	6 4 27
29 6 6		9 15 4	10 4 55	27 28 82	MAR.	c 7 18 58	7 21 40
45 0 0	MAR.	9 16 82	11 16 18		O.	22 18 20	22 16 1n
	MAY.	9 5 16	9 8 22		Arail	8 7 42	6 14 12
	DALAY .	(28 28 88	9 8 22		MAY .	5 20 26	6 5 11
	June .	7 18 0	7 15 0		JUNE.	4 9 10	4 18 8
	JULY.	7 6 44	6 22 9		July .	8 21 54	4 5 10
	Aug.	5 19 28	5 6 54		l	/ 0 to 99	-
	SEPT.	4 8 12	8 18 11		Aug	81 28 22	
	Ocr.	8 20 56	8 8 81		0	(15 17 44	15 10 9
	Nov.	(2 9 40	2 1 48		SEPT	(80 12 6	(80 9 80
	0	17 4 2	17 6 56		Oct	80 0 50	
		( 1 22 24			Nov	28 18 84	
	DEC	81 11 8			DEC.	28 2 18	
		-			1		

united to the territory	4		1 166.1		11-14-1	· PF Nantona Langurin edito (Sen.	noncerum is is secured
M man		Mark New	True New	Manage		Mean New	True New
1	M min	Maria Talina	201 - 9	Vernal Rejuitment.	Month	Money,	Moon.
May miner in		# 40 H # 1850 4 1	A series areas &	sent moraums.		( Pull Nol.)	(() non mort
				4 1 10 4	H 17 1-		LOS IS NOT 1 Williams Johnson
B C		ul A. 800.	al h. so.			d. h. m.	d. h. m.
800	1	Sex 15 B	201 H 5.8	8.C. 587.		C 8 11 50	H 7 49
D.			21 23 19	4.	O		
M 🗴 1 = - 3 =	i as ,			March.	Jam.,	(21 6 14	21 11 7
d. A m	٠, ٠	11 22 9	1.2 19 411	d. A. m.	Fan.	21 18 57	21 23 35
gm 5 24	M.s.	1 July 14's 181	JR: 14 BI	21 22 41	Man.,	21 7 41	28 7 68
	Armis	25 6 15	\$ 0.30		Arnii.	g1 g0 g5	21 15 48
	M	21 17 50	28 28 47		May .	21 H H	21 0 21
	J: mm .	21 6 43	20 12 19		Jean .	भा था धा	10 10 82
	Jane .	12 19 37	.3 1 3.	1		4 4 16 16	4 22 20
	Atm.	21 0 11	21 10 40		July .	119 10 87	18 28 7
1		5 2 183	4 12 54		Ata	17 23 21	17 14 20
,	tions.	119 20 65	21 11 64		Harr.	10 12 6	16 7 44
!			19 11 45				
•	Electric and				thy	• •	
	Noa.	1: 22 20	17 22 111		Non.	14 18 14	14 (20 (8)
	Dan.	1: 11 7	17 9 20		I tax	114 2 17	14 18 18
			1		· · ·	134 30 80	2H 18 B
680	J.s	15 23 63	an year	600.	•	12 15 1	10 8 84
<b>\$</b> 2.4.	l'an .	14 12 36	14 7 30	guo.	Jaw		
27 11 10	Man	15 1 30	14 19 2		Fan.	11 8 45	11 15 18
			*	21 4 30	Man.,	12 10 20	13 0 42
8	Arnit	18 14 4	131 44 231		Armin	11 6 13	11 8 25
	M	13 2 49	17 77 191		Mas .	10 17 57	10 15 28
	J	11 15 01	11 10 07		Jina.	4 9 6 41	H 122 41
	3: 29 .	11 4 10	11 5 14			121 1 8	21 H 10
1	A : a	U 17 11	19 18 18 18		Jin	и 10 25	H 7 23
\$	Mary	* 5 41	* 11 11		Atn.	7 H 9	6 1H 20
ŧ .	Elacu .	7 14 20	n 41 54 8		Nary.	6 20 68	5 H B5
1	Non	6 7 13	6 13 30	1	1	6 9 117	6 1 80
		8 10 10	6 1 12		Der.	1	1
erote en en en en en en en en en en en en en	Liter	1	.,		Nov .	8 22 21	8 20 85
1	í	A CONTRACTOR OF THE CONTRACTOR			Dar.	8 11 5	9 14 2
608.	J	4 8 40	4 11 562	Name of the last o	1	1 1 22 50	2 10 19
	17)	110 2 3	to H H	665.	JAN.	B1 12 B1	} ***
# 6000	Fax	2 21 24	2 21 57	P. D.	Fan.	1	1 4 8
27 10 to	M.n	4 10 H	4 7 201	0.00	* **** *	1 1 1 14	
1	Arnth	2 22 12	2 17 2	27 10 25	Man.	30 14 3	
	Mar	2 11 50	1 2 8 82		i	4	
	, MAN .	1 0 90	a 15 ter		Arnii	20 2 40	
	Jene .	,	sors A Ark		MAY .	an la mi	4
Name of the last o		(30) 18 4	m) 6 44		Jenn .		M 77 11
Single-	0	15 7 30	15 6 66		Jes.	30 16 tM	24 6 5
9	Jear .	(30) 1 40	20 21 Bu			35 6 49	
- September 1	Aru.	2m 14 BQ	201 14 201			23 IN 26	
on the second	herr.		27 7 19			ges 7 10	
Market	( h. v.	20 In O	200 221 291		1	7 1 84	
- Andrews	Nav.		i		0	21 10 54	4
900.	Dec.	p4 17 20			4	1	1
Name of the state	476to .				Day.	81 8 89	SI 10 00
		3	1	:0	4	*	1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 584.		d. h. m.	d. h. m.	B.C. 581.		d. h. m.	d. h. m.
D.	JAN	19 21 23	20 5 32	A.G.	JAN	17 12 33	17 6 13
d. $h.$ $m.$	FEB	18 10 7	18 22 28	March. $d. h. m.$	FEB	16 1 17	15 19 51
27 16 14	MAR	19 22 51	20 12 29	w. 10. 110.	0	ſ 1 19 <b>3</b> 9	2 7 56
	APRIL	18 11 35	18 23 31	27 9 40	MAR	16 14 1	16 10 29
}	0	(3 5 57	2 22 36		APRIL	15 2 45	15 1 49
	MAY .	(18 0 19	18 8 9		MAY .	14 15 29	14 17 22
	June .	16 13 3	16 15 26		JUNE.	13 4 13	13 8 29
	JULY.	16 1 47	15 22 27		JULY.	12 16 57	12 22 85
	Aug	14 14 31	14 6 14	•	Aug	∫11 5 <b>4</b> 1	11 11 30
	SEPT	13 3 15	12 15 42		0	(26 0 8	25 10 0
	Oct	<b>∫12 15 59</b>	<b>12</b> 3 30		SEPT	9 18 25	9 23 24
	0	27 10 21	27 18 0	1	Oct	9 7 9	9 10 38
	Nov	11 4 43	10 17 54		Nov	7 19 53	7 21 38
	Dec	10 17 27	10 10 40		DEC	7 8 87	7 8 29
583.	T	0 0 11	0 4 54	580.	JAN	5 21 21	5 19 16
C.	JAN	9 6 11 7 18 55	9 4 54 7 23 22	F.	FEB	$\begin{cases} 4 & 10 & 5 \\ 1 & 1 & 25 \end{cases}$	4 6 6
27 22 3	FEB	7 18 55 9 7 39	7 23 22 9 16 42		0	119 4 27	19 18 7
2. 22	APRIL	7 20 23	9 16 42 8 7 50	27 15 29	MAR.	5 22 49	5 17 18
	O	22 14 45	22 8 22		APRIL	4 11 33	4 5 20
*	MAY .	7 9 7	7 20 22		MAY.	4 0 17	8 18 36
	June .	5 21 51	6 6 30		June.	2 13 1	2 9 10 2 0 88
	JULY.	5 10 35	5 15 4		JULY.	31 14 29	81 16 22
	Aug	3 23 19	3 23 2			(15 8 51	15 2 22
	SEPT	2 12 3	2 7 24		Aug	30 8 18	80 7 48
		1 2 0 47	1 16 52		SEPT.	28 15 57	28 22 11
	Oct. O	16 19 9	16 23 17		Oct.	28 4 41	28 11 85
		(31 13 31	<b>31 3</b> 59		Nov.	26 17 25	26 28 58
	Nov	30 2 15	29 16 56		DEC.	26 6 9	26 11 7
	DEC	29 14 59	29 7 38	579.	Jan	24 18 54	24 21 22
582.	-	22 2 11		E.	0	ſ 8 18 16	8 20 56
B.	JAN	28 3 44	27 23 48		FEB	23 7 38	28 6 49
28 3 52	FEB.	26 16 28	26 16 43	27 21 18	MAR	24 20 22	24 16 1
20 0 02	MAR	28 5 12	28 9 31		APRIL	23 9 6	28 1 44
	APRIL MAY.	26 17 56 26 6 40	27 1 16		MAY .	22 21 50	22 12 46
	JUNE.	26 6 40 24 19 24	26 15 16 25 3 22		JUNE .	21 10 34	21 1 46
	JULY.	24 19 24	25 3 22 24 13 52		July.	20 23 18	20 16 47
	Aug.	22 20 52	22 23 31		0	<b>∫ 4</b> 17 40	4 14 36
	SEPT.	21 9 36	21 9 2		Aug	(19 12 2	19 9 22
	Oct	20 22 20	20 19 3		SEPT	18 0 46	18 2 89
	Nov.	19 11 4	19 5 52		Oct	17 13 30	17 19 84
	DEC	18 23 48	18 17 35		Nov.	16 2 14	16 11 17
	1				DEC	15 14 58	16 1 12

Mean Vernal Equinox.	Month.	Mean New Moon, (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
B.C. 578.		d. h. m.	d. h. m.	B.C. 575.		d. h. m.	d. h. m.
р.	JAN	14 3 42	14 13 9	G.	JAN	10 18 53	11 0 7
d. h. m.	FEB	12 16 26	12 23 12	March. $d. h. m.$	FEB	9 7 37	9 18 6
28 3 7	Mar	14 5 10	14 7 48	27 20 33	MAR	10 20 21	11 9 34
	APRIL	12 17 54	12 15 37		APRIL	9 9 5	9 21 59
	MAY .	12 6 38	11 23 34		MAY .	8 21 49	9 7 43
	June .	10 19 22	10 8 42		June .	7 10 33	7 15 36
	JULY .	10 8 6	9 19 58		JULY .	6 23 17	6 22 41
	Aug	8 20 50	8 9 54		Aug	5 12 1	5 6 7
	SEPT	7 9 34	7 2 27		SEPT	4 0 45	3 14 47
	Oct	6 22 18	6 20 45		Oct	3 13 29	3 1 28
	Nov	5 11 2	<b>5 1</b> 5 30		Nov	2 2 13	1 14 37
'	DEC	∫ <b>4 23 4</b> 6	5 9 15		D	( 1 14 57	1 6 11
	0	19 18 8	19 <b>1</b> 0 31		DEC	81 3 41	30 23 39
577.	Jan	3 12 31	4 0 56	574.			
С.В.	FEB	2 1 15	2 13 54	F.	JAN	29 16 25	29 17 58
27 8 56	MAR.	2 13 59	3 0 16		FEB	28 5 9	28 11 52
2. 000		(1 2 43	1 8 35	28 2 22	MAR	29 17 53	30 4 4
	APRIL	30 15 27	30 15 43		0	13 12 15	13 7 45
	MAY.	30 4 11	29 22 37	İ	APRIL	28 6 37	28 17 53
	0	(13 22 33	14 5 9		MAY .	27 19 21	28 5 13
	JUNE .	28 16 55	28 6 27	}	JUNE.	26 8 5	26 14 34
	JULY .	28 5 39	27 16 15	,	JULY.	25 20 49	25 22 54
	Aug	26 18 23	26 4 44		Aug	24 9 33	24 7 9
	SEPT	25 7 7	24 20 36		SEPT	22 22 17	22 16 11
	Oct	24 19 51	24 14 51		0	7 16 39	7 18 13
	Nov	23 8 35	23 10 21		Oct.	20 23 45	22 2 35 20 14 36
1	0	(8 2 57	8 0 7		Nov.	20 23 43	20 14 30
	DEC	22 21 19	23 5 26		DEC	20 12 29	20 4 19
576.	JAN	21 10 4	21 22 34	573.	JAN	19 1 14	18 19 36
A.	FEB	19 22 48	20 12 49	E.D.	FEB	17 13 58	17 11 56
27 14 45	MAR	21 11 32	22 0 1	27 8 11	MAR	18 2 42	18 4 39
	APRIL	20 0 16	20 8 43		0	1 21 4	2 0 6
	MAY .	19 13 0	19 15 49		APRIL	16 15 26	1
	0	∫ 3 7 22	3 6 42		MAY .	16 4 10	16 11 49
	JUNE .	18 1 44	17 22 28	H	JUNE .	14 16 54	15 0 58
	JULY .	17 14 28	17 5 44		JULY.	14 5 38	
	Aug		15 14 39		Aug	12 18 22	
	SEPT	14 15 56	14 2 7	<u> </u>	SEPT	$\int 11  7  6$	
	Oct	<b>14 4 4</b> 0	13 16 33		0	(26 1 28	
	Nov.	1.4	1		Oct.	10 19 50	1
	0	27 11 46			Nov.	9 8 34	1
	DEC	12 6 8	12 4 48		DEC.	8 21 18	8 16 3

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. (O Full Ecl.)
B.C. 572. c. March. d. h. m. 27 14 0	JAN FEE MAR O	d. h. m. 7 10 2 5 22 46 7 11 30 22 5 52 6 0 14 5 12 58 4 1 42 3 14 26 2 3 10 31 15 54 (15 10 16 30 4 38 29 17 22 28 6 6 27 18 50	d. h. m.  7 4 3 5 16 54 7 6 43 22 16 34 5 21 29 5 12 51 4 4 14 8 19 1 2 8 47 81 21 26 14 20 39 80 9 15 29 20 32 28 7 32	B.C. 569. G.F. March. d. h. m. 27 7 26	JAN O FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OOT Nov	d. h. m.  { 5 1 12  19 19 34	d. h. m. 5 11 45 19 15 42 3 22 36 4 7 48 2 15 38 1 28 18 81 7 80 29 17 82 15 5 58 29 6 8 27 21 31 26 15 13 26 10 5 25 4 40
571. B. 27 19 49 570.	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	26 7 85 24 20 19 26 9 8 24 21 47 24 10 81 22 28 15 22 11 59 21 0 48 19 18 27 19 2 11 17 14 55 17 8 39  {15 16 24 30 10 46	27 18 19 26 4 56 24 15 37 26 2 52 24 15 15 24 5 1 22 20 4 22 11 54 21 3 45 19 18 59 19 9 13 17 22 16 17 10 5 15 20 44 30 15 38	568. E. 27 13 15	DEC.  O JAN. FEB. MAR. APRIL MAY JUNE O JULY AUG. SEPT. OCT. NOV. DEC.	24 10 0 { 8 4 23 22 22 45 21 11 29 23 0 13 21 12 57 21 1 41 { 19 14 25 4 8 47 19 3 9 17 15 53 16 4 37 15 17 21 14 6 5 13 18 49	24 21 84  7 21 81 28 11 54 21 28 27 28 8 84 21 16 8 20 22 50 19 6 2 4 15 12 18 14 45 17 1 57 15 16 12 15 9 28 14 4 30 14 0 2
28 1 38	FEB MAR APRIL MAY . JUNE . O AUG SEPT OOCT NOV DEC	14 5 8 15 17 52 14 6 36 13 19 20 12 8 4 (11 20 48 26 15 10 10 9 32 8 22 16 8 11 0 6 23 44 6 12 28	14 6 20 15 15 21 14 0 27 13 10 31 11 22 23 11 12 23 26 14 39 10 4 23 8 21 39 8 15 8 7 7 46 6 22 47	5 <b>67.</b> D. 27 19 4	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV O	12 7 34 10 20 18 12 9 2 10 21 46 10 10 30 8 28 14 8 11 58 7 0 42 5 13 26 5 2 10 { 8 14 54 18 9 16 8 8 8 8	12 18 19 11 10 1 12 22 38 11 8 24 10 16 7 8 22 58 8 5 44 6 13 47 5 0 0 4 13 1 3 4 55 18 14 39 2 23 10

June.       27 20 46       27 22 54       Aug.       22 18         July.       27 9 30       27 6 9       O       6 7         Aug.       25 22 14       25 14 16       Sept.       21 2         Sept.       24 10 58       24 0 1       Oct.       20 14	16 2 3 22 1 44 2 28 2 12 2 56 2 40 2 24 2 7 46 2 8 2 2 8 2 2 8 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 2 1 2 2 2 2 2 2 1 2 2 2 2 2 2 1 2 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	18 18 27 17 26 8 25 28 24 18 24 8 22 19 5 18 20 19	29 3 31 5 46 7 31 3 25 3 47 5 2 5 33 0 2 1 7 32 1 17 3 34
d. h. m.       28 0 58       Mar.          {             1 17 50               2 5 52               {             81 6 34 81 19 45               81 6 34 81 19 45               81 6 45	1 44 2 28 2 56 2 56 2 40 2 2 24 2 7 46 2 8 2 36 1	27 17 26 8 25 25 24 15 24 5 22 19 5 18 21 7 20 19	7 31 3 25 3 47 5 2 5 33 9 2 9 2 9 17 3 34
O {14 13 40 14 5 25 MAY . {29 8 2 29 15 27 JULY . 24 0 1 JULY . 27 20 46 27 22 54 JULY . 27 9 30 27 6 9 AUG . 25 22 14 25 14 16 SEFT . 24 10 58 24 0 1 OCT . 23 23 42 23 11 58 Nov . 19 3	56 2 40 2 24 2 7 46 2 8 2 52 2 36 1	24 15 24 5 22 19 5 18 21 7 20 19	33 33 2 3 0 32 17 34
MAY . \( \begin{array}{cccccccccccccccccccccccccccccccccccc	40 2 24 2 46 8 2 52 2 36 1	24 5 22 19 5 18 21 7 20 19	33 2 3 0 32 17 34
June       27 20 46       27 22 54       Aug.       22 18         July       27 9 30       27 6 9       O       6 7         Aug.       25 22 14       25 14 16       Sept.       21 2         Sept.       24 10 58       24 0 1       Oct.       20 14         Oct.       23 23 42       23 11 58       Nov.       19 3	24 2 46 8 2 52 2 36 1	22 19 5 18 21 7 20 19 .9 6	2 3 0 32 17 34
July .     27 9 30     27 6 9       Aug     25 22 14     25 14 16       Sept     24 10 58     24 0 1       Oct     23 23 42     23 11 58         O     6 7       Sept     20 14       Nov     19 3	46 8 8 2 52 2 36 1	5 18 21 7 20 19	3 0 32 17 34
Aug. 25 22 14 25 14 16   Sept. 21 2 2 14 16   Sept. 24 10 58 24 0 1   Oct. 23 23 42 23 11 58   Nov. 19 8	8 2 52 2 36 1	21 7 20 19 .9 6	32 17 34
Sept       24 10 58       24 0 1       Oct       20 14         Oct       23 23 42       23 11 58       Nov       19 8	52 2 36 1	20 19 .9 6	17 34
Ост 23 23 42 23 11 58 Nov 19 3	36 1	.9 6	34
			26
Nov   22 12 26 22 2 18			
DEC 22 1 10 21 18 47 562. JAN 17 5	- 1		58
E.   FEB   15 17		5 14	
565. Jan. 20 13 55 20 12 40 0 0 2 12 12 13 15 17 18 18 18 18 18 18 18 18 18 18 18 18 18			42
TEB 13 2 39 13 0 42 28 0 8 MAR (17 6			57
20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 .	5 12	
APRIL 18 4 7 18 14 44 MAY . 15 8			. 17
O   \( 2 \) 22 29   2 15 41     June.   13 20		.3 15 .3 7	15
June. 16 5 35 16 13 40 Aug. (11 22		.5 1 .1 28	
July . 15 18 19 15 22 33 O \ \{26 16}	. 1	6 10	
Aug. 14 7 3 14 6 56 Sept. 10 10	1	.0 15	
Sept. 12 19 47 12 15 48 Oct. 9 28	1		20
Oct. (12 8 31 12 1 32 Nov. 8 12		8 20	
O \{27 \ 2 \ 53 \ 27 \ 7 \ 16 \ \ \Dec. \ \ 8 \ 1			46
Nov 10 21 15 10 12 46	-		
Drg. 10 9 59 10 1 95 P.C.	1	6 20	
FEB. ,   5 2			53 19
G	i	5 14	
27 12 31 MAR. 9 0 12 8 23 51 APRIL 4 4		5 14 5 23	
	- 1		54
	- !	1 19	
June 5 14 24 5 21 58 (1 18			29
July . 5 3 8 5 10 24 July . 31 7		0 23	
		4 22	
Sept. 2 4 36 2 7 34 Aug. 29 19		9 16	<b>3</b> 0
	30 2	8 10	15
Oct 31 6 4 31 3 55 Oct 27 21	14 28	8 8	41
Nov   29 18 48   29 14 50   Nov   26 9	58 20	6 <b>1</b> 9	47
DEC 29 7 32 29 2 19 DEC 25 22	42 26	69	51

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1019.	-	d. h. m.	d. h. m.	A.D. 1022.		d. h. m.	d. h. m.
March.	JAN	9 0 48	9 1 8	G. March.	JAN	5 15 58	5 11 1
d. h. m.	FEB	7 13 32	7 20 9	d. h. m.	FEB	4 4 42	3 23 0
15 17 54	MAR	5 9 2 16	9 13 30	15 11 21	MAR	5 17 26	5 11 46
	0	(23 20 38	23 17 0		APRIL	4 6 10	4 1 31
	APRIL	7 15 0	8 4 11		MAY.	3 18 54	3 16 13
	MAY.	7 3 44	7 15 54		JUNE.	2 7 38	2 7 31
	JUNE.	5 16 28	6 1 8			(1 20 22	1 22 51
	JULY.	5 5 12	5 8 48		July O	16 14 44	16 7 19
	Aug	3 17 56	3 16 0			(31 9 6	31 13 36
	SEPT	(2 6 40	1 23 48	1	Aug	29 21 50	30 3 22
İ	0	[17 1 2	17 2 11		SEPT.	28 10 34	28 16 5
	0	( 1 19 24	1 9 2		Oct	27 23 18	28 4 1
	Oct	(31 8 8	30 20 21		Nov.	26 12 2	26 15 24
	Nov	29 20 52	29 10 5		DEC	26 0 46	26 2 23
	DEC	29 9 36	29 2 3		0	(9198	9 22 48
1020.	JAN	27 22 20	27 19 38	1023.	JAN.	24 13 30	24 12 59
C.B.	FEB	26 11 4	26 13 45	F.	FEB	23 2 14	22 23 22
	0	(12 5 26	12 8 46	15 17 10	MAR.	24 14 58	24 9 52
14 28 48	MAR	<b>26 23 48</b>	27 7 11	10 11 10	APRIL	23 3 42	22 21 4
	APRIL	25 12 32	25 22 48		MAY .	22 16 26	22 9 31
1	MAY .	25 1 16	25 12 0		JUNE .	21 5 10	20 23 30
1	June.	23 14 0	23 22 53			(5 23 32	6 0 28
1	July .	28 2 44	28 8 5		O July .	20 17 54	20 14 50
	Aug	21 15 28	21 16 30		Aug	19 6 38	19 6 53
	0	(5 9 50	5 2 8		SEPT.	17 19 22	17 22 55
	SEPT	20 4 12	20 1 5	(	Ост	17 8 6	17 14 14
l	Ост.	19 16 56	19 10 35		Nov.	15 20 50	16 4 27
	Nov.	18 5 40	17 21 25		DEC	(15 9 34	15 17 21
	DEC	17 18 24	17 9 48		0	30 3 56	29 22 21
1001						,	
1021.	JAN	16 7 9	15 23 46	1024.	JAN	13 22 19	14 4 55
	FEB	14 19 58	14 15 3	E.D.	FEB.	12 11 3	12 15 10
48 8 00	.0	1 14 15	2 0 54	14 22 59	MAR	12 23 47	13 0 22
15 5 82	MAR	(16 8 87	16 7 17		APRIL	11 12 31	11 9 4
1	APRIL	14 21 21	14 23 45		MAY .	11 1 15	10 18 8
	MAY.	14 10 5	14 15 37		June.	§ 9 13 59	9 4 24
	June.	12 22 49	13 6 11		0	124 8 21	24 16 11
	Jury.	12 11 33	12 19 3		JULY.	9 2 43	8 16 33
	Aug	511 0 17	11 6 24		Αυς	7 15 27	7 7 10
	0	25 18 39	25 5 12		SEPT	6 4 11	5 23 42
	SEPT	9 18 1	9 16 42	'	Ост	5 16 55	5 17 20
	Ocr	9 1 45	9 2 42		Nov	4 5 39	4 10 57
1	Nov	7 14 29	7 12 55		DEC	<b>6</b> 3 18 23	4 3 29
	Duc	7 8 18	6 23 40		0	18 12 45	18 3 26
1				1			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Mouth.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D.		d. h. m.	d. h. m.	A.D. 1028.		d. h. m.	d. h. m.
1025. c.		(278	2 18 8	G.F.	JAN	29 11 1	29 14 87
	JAN	31 19 52		March.	FEB	27 23 45	28 8 50
March.	FEB	(01 10 01	1 6 35	d. h. m. 14 22 14	MAR	28 12 30	29 0 51
d. h. m.	LED	(2 8 36	2 16 53		0	(12 6 52	12 1 42
15 4 47	MAR	31 21 20	(1 1 27		APRIL	27 1 14	27 18 59
	APRIL	30 10 4	30 9 1		MAY .	26 13 58	27 0 23
	MAY .	29 22 48	29 16 33		JUNE .	25 2 42	25 8 45
}	JUNE.	28 11 32	28 1 3		JULY.	24 15 26	24 16 11
	JULY.	28 0 16	27 11 37		Aug	23 4 10	22 23 48
	Aug.	26 13 0	26 0 53		SEPT	21 16 54	21 8 18
	SEPT.	25 1 44	24 17 0		0	6 11 16	6 14 21
	Ост.	24 14 28	24 11 15		Ост	21 5 38	20 18 89
	Nov.	23 3 12	23 6 20		Nov	19 18 22	19 7 12
	Dec	22 15 56	23 0 44		Dec	19 7 6	18 22 1
1000	Τ	21 4 40	21 17 7				
1026. B.	Jan	19 17 24	20 6 44	1029.	JAN	17 19 50	17 14 48
15 10 36	FEB.	21 6 8	21 17 33	E.	FEB	16 8 34	16 8 31
19 10 90	MAR APRIL	19 18 52	20 2 6	15 4 3	MAR	17 21 18	18 2 18
		( 4 13 14	4 13 32		APRIL	16 10 2	16 18 42
	MAY.	19 7 36	19 9 13		MAY .	15 22 46	16 9 6
	JUNE.	17 20 20	17 15 56		JUNE .	14 11 30	14 21 11
	JULY.	17 9 4	16 23 24		JULY .	14 0 14	14 7 17
	Aug.	15 21 48	15 8 40		Aug	12 12 58	12 16 10
	SEPT.	14 10 32	13 20 37		SEPT	11 1 42	11 0 47
	Oct.	(13 23 16	13 11 41		Oct.	10 14 26	10 9 58
	0	28 17 38	28 20 17		Nov	9 8 10	8 20 12
	Nov.	12 12 0	12 5 29		DEC	8 15 54	8 7 49
	DEC	12 0 44	12 0 54				
1027.	JAN.	10 13 29	10 20 18	1030.	JAN	7 4 89	6 20 58
1021.	FEB.	9 2 13	9 14 0	D.	FEB	( 5 17 28	5 11 18
15 16 25	MAR.	10 14 57	11 4 55		0	20 11 45	20 28 47
10 10 20	APRIL	9 3 41	9 16 44	15 9 52	MAR	7 6 7	7 2 50
	0	23 22 3	1		APRIL	5 18 51	5 19 1
	MAY .	8 16 25	9 1 53		MAY .	5 7 85	5 11 7
	June .	7 5 9	7 9 16		JUNE .	3 20 19	4 2 22
	JULY.	6 17 53	6 15 59		JULY.	3 9 3	8 16 18
	Aug	5 6 37	4 23 6			1 21 47	2 4 20
	SEPT	3 19 21	3 7 42		Aug.O	16 16 9	16 2 84
	Oct	3 8 5	2 18 37			(31 10 31	31 15 29
	0	18 2 27	18 8 45		SEPT	29 28 15	30 1 50
	Nov	1 20 49	1 8 23		Oct	29 11 59	29 12 7
	DEC	1 9 39			Nov.	28 0 43	27 22 42
		30 22 17	30 19 26		DEC	27 18 27	27 9 48
	<u>'</u>	1	1	11	1	1	i

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1031.		d. h. m.	d. h. m.	A.D. 1034.		d. h. m.	d. h. m.
C.	JAN	. 26 2 11	25 21 12	F.	Jan	22 17 21	23 4 55
March.	0	6 9 20 33	10 9 41	March.	FEB	21 6 5	21 16 9
d. $h.$ $m.$	FEB	24 14 55	24 9 18	d. h. m. 15 9 7	MAR.	22 18 49	23 1 22
15 15 40	MAR.,	26 3 39	25 22 14		APRIL	21 7 33	21 9 10
	APRIL	24 16 23	24 12 11		MAY.	20 20 17	20 16 26
	MAY .	24 5 7	24 3 3			( 4 14 39	4 23 12
1	June .	22 17 51	22 18 25		O June.	19 9 1	19 0 13
	July.	22 6 35	22 9 39		JULY.	18 21 45	18 9 35
	0	6 0 57	5 15 0		Aug.	17·10 29	16 21 28
	Aug	20 19 19	21 0 11		SEPT.	15 23 13	
	SEPT	19 8 3	19 13 43		Oct	15 11 57	15 12 16 15 5 41
1	Ocr	18 20 47	19 2 18		Nov	(14 0 41	
	Nov	17 9 81	17 14 9		0	28 19 3	14 0 42   28 14 20
	DEC	16 22 15	17 1 24		70	13 13 25	13 19 46
					DEC	10 10 20	10 19 40
1032.	JAN	15 11 0	15 12 10	1035.	Jan	12 2 10	12 13 21
B.A.	FEB	18 28 44	13 22 27	E.	FEB	10 14 54	11 4 23
14 21 29	MAR	14 12 28	14 8 34	15 14 56	MAR.	12 3 38	12 16 29
	APRIL	13 1 12	12 19 3	20 21 00	APRIL	10 16 22	11 1 57
	MAY .	12 18 56	12 6 35		May .	(10 5 6	10 9 34
	June .	11 2 40	10 19 38		0	24 23 28	25 0 36
	JULY.	(10 15 24	10 10 18		JUNE.	8 17 50	8 16 17
	0	25 9 46	25 7 43		JULY.	8 6 34	7 23 14
	Aug	9 4 8	9 2 11		Aug	6 19 18	6 7 28
	SEPT	7 16 52	7 18 33		SEPT	5 8 2	4 18 5
	Our	7 5 86	7 10 36		Oct.	4 20 46	4 7 39
	Nov	5 18 20	6 1 41		Nov.	1 3 9 30	3 0 15
	DEC	5 7 4	<b>5 1</b> 5 26		0	18 3 52	18 6 9
					DEC	2 22 14	2 19 4
1033.	Jan	3 19 49	4 8 44				
G.	FEB	2 8 83	<b>2 14</b> 80	1000	T	f 1 10 58	1 14 41
15 8 18	MAR	8 21 17	4 0 2	1036. D.C.	JAN	130 23 42	31 9 22
	APRIL	2 10 1	2 8 42	2.0.	FEB	29 12 27	
	May .	f 1 22 45	1 17 15	14 00 43	M	٠	1 1 42
	MAA1 .	81 11 29	81 2 85	14 20 45	MAR	(30 1 11	30 15 0
	0	(15 5 51	15 15 14		APRIL	28 13 55	29 1 20
	JUNE.	(80 0 18	29 13 39		MAY .	28 2 39	28 9 26
	JULY.	29 12 57	29 3 1		JUNE .	26 15 23	26 16 22
	Aug	28 1 41	27 18 43		JULY .	26 4 7	25 23 13
	SEPT	26 14 25	26 12 7		Aug	24 16 51	24 7 4
	Oor	26 8 9	26 6 8		SEPT	23 5 35	22 16 51
	Nov	24 15 53	24 28 32		Ocr	22 18 19	22 5 14
	0	9 10 15	9 0 47		Nov	21 7 3	20 20 28
	Drc	24 4 37	24 15 21		DEC	20 19 47	20 14 3
		,			1	1	

Mean		Mean New	True New	Mean		Mean New	True New
Vernal Equinox.	Month.	Moon.	Moon.	Vernal Equinox.	Month.	Moon.	Moon. (O Full Ecl.)
A.D. 1037.		d. h. m.	d. h. m.	A.D. 1040.		d. h. m.	d. h. m.
March.	JAN	19 8 31	19 8 58	F.E. March.	JAN	16 28 41	16 19 45
d. h. m.	FEB	17 21 15	18 3 42	d. h. m.	Fев	15 12 25	15 7 18
15 2 33	MAR	19 9 59	19 20 49	14 20 0	MAR	16 1 9	15 19 29
	. 0	3 4 21	3 0 49		APRIL	14 13 53	14 8 38
	APRIL	17 22 43	18 11 20		MAY .	14 2 37	13 22 51
	MAY.	17 11 27	17 23 2		June.	12 15 21	12 13 56
	JUNE.	16 0 11	16 8 22		July.	12 4 5	12 5 28
	July.	15 12 55	15 16 15		Aug	10 16 49	10 20 30
	Aug.	14 1 39	13 23 45		SEPT	9 5 33	9 10 50
	SEPT	12 14 23	12 7 53		Ocr	8 18 17	9 0 11
	0	27 8 45	27 9 32		Nov	7 7 1	7 12 38
	Oct	12 3 7	11 17 26		DEC	6 19 45	7 0 19
	Nov	10 15 51	10 4 56	1041	T	(5 8 30	5 11 19
	DEC	10 4 35	9 18 36	1041.	Jan	$\begin{bmatrix} 5 & 8 & 30 \\ 20 & 2 & 52 \end{bmatrix}$	5 11 19 20 6 89
1038.	JAN	8 17 20	8 10 17		FEB		
<b>A.</b>	FEB	7 6 4	7 3 26	15 1 49	MAR	8 21 14 5 9 58	8 21 40 5 7 86
15 8 22	MAR	§ 8 18 48	8 21 4	15 1 49	APRIL	3 22 42	3 7 30 3 17 34
	0	23 13 10	23 16 53		MAY.	3 11 26	3 4 14
	APRIL	7 7 32	7 14 7		June .	2 0 10	1 16 16
	MAY .	6 20 16	7 5 34		JUNE .	( 1 12 54	1 6 8
	JUNE.	5 9 0	5 18 51		JULYO	16 7 16	16 7 59
	JULY.	4 21 44	5 5 5 5 9		0022	31 1 38	80 21 28
	Aug	3 10 28	3 15 33		Aug	29 14 22	29 18 51
	SEPT	1 23 12	2 0 25		SEPT.	28 3 6	28 6 25
	0	16 17 34	16 9 19		Oct	27 15 50	27 22 21
	Ост	1 11 56	1 9 28		Nov.	26 4 34	26 18 <b>2</b>
ł	37	(31 0 40	30 19 18		DEC	25 17 18	26 2 10
	Nov	29 13 24 29 2 8	29 6 17				
			28 18 31		0	9 11 41	9 6 27
1039. e.	JAN	27 14 53	27 8 4	1042.	JAN	24 6 3	24 18 41
4.	FEB	26 3 37	25 22 48	C.	FEB	22 18 47	22 28 89
15 14 11	0	12 21 59	13 9 4	15 7 38	MAR	24 7 31	24 8 28
15 14 11	MAR.	27 16 21	27 14 26		APRIL	22 20 15	22 16 44
	APRIL	26 5 5	26 6 28		MAY.	22 8 59	22 1 22
	MAY.	25 17 49	25 22 9		June.	20 21 43	20 11 20
	JUNE.	24 6 33 23 19 17	24 12 48		O	5 16 5	5 28 17
	AUG.	1	24 2 2		JULY.	20 10 27	19 28 28
	I	22 8 1	22 13 52		AUG	18 28 11	18 14 4
	SEPT.	20 20 45	5 12 37		SEPT.	17 11 55	17 6 52
	OCT.	20 20 45			Oct	17 0 39	17 0 55
	Nov.	18 22 13	20 11 15 18 21 48		Nov.	15 13 23	15 19 0
	DEC.	18 10 57	18 8 38		Dec	15 2 7	15 11 58
		1 20 01	10 0 58		Ι ΄.	25 20 29	29 12 0
						1	1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1043.		d. h. m.	d. h. m.	A.D. 1046.		d. h. m.	d. h. m.
March.	JAN	18 14 51	14 2 41	E.	JAN	10 6 1	10 3 26
d. h. m.	FEB	12 3 35	12 15 1	d. h. m.	FEB	8 18 45	8 22 16
15 18 86	MAR	13 16 19	14 1 4	15 6 53	Mar	10 7 29	10 16 11
	APRIL	12 5 3	12 9 19		APRIL	( 8 20 13	9 7 59
	MAY .	11 17 47	11 16 35		0	23 14 35	23 9 12
	JUNE .	10 6 31	9 23 51		MAY .	8 8 57	8 21 3
-	JULY .	9 19 15	9 8 14		June .	6 21 41	7 7 31
	Aug	8 7 59	7 18 46		JULY.	6 10 25	6 16 5
1	SEPT	6 20 43	6 8 9		Aug	4 23 9	4 23 49
	Ост	6 9 27	6 0 28		SEPT	3 11 53	3 7 42
	Nov	4 22 11	4 18 58		Oct	(3 0 37	2 16 38
	DEC	4 10 55	4 14 19		0	17 18 59	17 22 3
					Nov.	1 13 21	(1 3 14
1044.	T	0.00.40	2 2 2 2		11012 .	$(1\ 2\ 5)$	30 15 48
A.G.	JAN	2 28 40	8 8 55		DEC	30 14 49	
1	FEB	1 12 24	2 1 19			(50 14 45	30 6 25
14 19 15	MAR.	2 1 8	2 14 48		_		
		(31 13 52	1 1 26	1047.	JAN	29 3 34	28 22 43
	APRIL	30 2 36	180 9 45	D.	FEB	27 16 18	27 15 59
	0	14 20 58	14 20 6	15 12 42	MAR	29 5 2	29 9 15
	MAY.	29 15 20	29 16 43		APRIL	27 17 46	28 1 28
1	June .	28 4 4	27 28 24		MAY.	27 6 30	27 15 52
	July .	27 16 48	27 6 52		JUNE .	25 19 14	26 4 8
	Aug	26 5 82	25 16 15		JULY.	25 7 58	25 14 34
	SEPT	24 18 16	24 4 22		Aug	23 20 42	23 23 54
1	Oct	24 7 0	28 19 35		Sept	22 9 26	22 9 0
	0	8 1 22	8 5 0		Oct	21 22 10	21 18 35
	Nov	22 19 44	22 18 27		Nov	20 10 54	20 5 4
	DEC	22 8 28	22 8 52		DEC	19 23 38	19 16 39
1045.	JAN	20 21 12	21 4 11	1048.	Jan	18 12 22	18 5 28
F.	FEB	19 9 56	19 21 45	С.В.	Feb	17 1 6	16 19 17
15 1 4	MAR.	20 22 40	21 12 81		0	∫ 2 19 28	3 7 58
	APRIL	19 11 24	20 0 12	14 18 31	Mar	17 13 50	17 10 12
	0	4 5 46	8 28 8		APRIL	16 2 34	16 1 50
	MAY .	119 0 8	19 9 16		MAY.	15 15 18	15 17 39
	JUNK .	17 12 52	<b>17 16 4</b> 0		JUNE.	14 4 2	14 8 53
	July .	17 1 86	16 23 28		JULY.	13 16 46	13 22 58
	Aug	15 14 20	<b>1</b> 5 6 49		Aug	∫12 5 30	12 11 43
	SEPT	14 8 4	18 15 40		0	26 28 52	26 10 0
	Ocr	<b>18 15 4</b> 8	18 2 48		SEPT	10 18 14	10 23 15
	0	28 10 10	28 17 1		Ост	10 6 58	10 10 11
	Nov	12 4 82	11 16 39		Nov	8 19 42	8 20 54
	Drc	11 17 16	11 9 6		Dec	8 8 26	8 7 40
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Mean Vernul Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1049.		d. h. m.	d. h. m.	A.D. 1052.		d. h. m.	d. h. m.
A.	JAN	6 21 11	6 18 36	E.D. March.	JAN	4 12 21	4 28 49
3/5	FEB	∫ 5 9 55	5 5 44	d. h. m.	FEB	8 1 5	8 13 24
d. h. m.	0	\20 <b>4 17</b>	20 17 35	14 17 46	MAR	3 13 49	4 0 25
15 0 19	MAR	6 22 39	6 17 16		APRIL	2 2 33	2 9 20
	APRIL	5 11 23	5 5 35		MAY.	( 1 15 17	1 16 50
	MAY .	5 0 7	4 19 1		MAX.	(31 4 1	80 28 58
	JUNE .	3 12 51	3 9 34		0	£14 22 28	15 5 41
	JULY.	3 1 35	3 0 54		JUNE .	129 16 45	29 7 28
		( 1 14 19	1 16 24		JULY.	29 5 29	28 16 48
	Aug. O	16 8 41	15 22 42		Aug	27 18 18	27 4 45
		31 3 3	31 7 25		SEPT	26 6 57	25 19 48
	SEPT	29 15 47	29 21 34		Oct	25 19 41	25 18 28
	Ocr	29 4 31	29 10 44		Nov	24 8 25	24 8 86
	Nov	27 17 15	27 22 58		0	(9 2 47	8 28 16
	DEC	27 5 59	27 10 21		DEC	<b>128 21</b> 9	21 8 52
1050.	JAN	25 18 44	25 20 57	1053.	JAN	22 9 58	22 21 29
G.	FEB	24 7 28	24 6 52	c.	FEB	20 22 37	21 12 26
15 6 8	MAR	25 20 12	25 16 29	14 23 35	MAR	22 11 22	28 0 <b>28</b>
	APRIL	24 8 56	24 2 26		APRIL	21 0 6	21 9 89
	MAY .	23 21 40	23 13 29		MAY .	20 12 50	20 17 5
	JUNE .	22 10 24	22 2 15		0	(4 7 12	474
	JULY.	21 23 8	21 16 53		JUNE .	(19 1 84	18 28 48
	0	5 17 30	5 15 24		JULY.	18 14 18	18 6 41
	Aug	20 11 52	20 9 0		Aug	17 8 2	16 15 4
1	SEPT	19 0 36	19 1 50		SEPT	15 15 46	15 1 49
	Ост	18 13 20	18 18 27	İ	Ocr	15 4 80	14 15 88
1	Nov	17 2 4	17 10 4	i	Nov	(13 17 14	18 8 14
	DEC	16 14 48	17 0 9		0	<b>\( 28 11 36 \)</b>	28 15 1
1051.	Jan	15 3 32	15 12 30		DEC	18 5 58	18 8 5
F.	FEB.	13 16 16	13 23 6	1054.	JAN	11 18 42	11 22 86
15 11 57	MAR.	15 5 0	15 8 15	В.	FEB.	10 7 26	10 17 8
į	APRIL	13 17 44	13 16 29	15 5 24	MAR.	11 20 10	12 9 18
	MAY .	13 6 28	13 0 38		APRIL	10 8 54	10 22 27
	JUNE .	(11 19 12	11 9 38		MAY.	9 21 38	10 8 41
	0	26 13 34	26 22 19		June .	8 10 22	8 16 48
	JULY.	11 7 56	10 20 32		JULY.	7 28 6	7 28 50
	AυG	9 20 40	9 9 53		Aug.	6 11 50	6 6 58
	SEPT	8 9 24	8 1 46		SEPT.	5 0 84	4 15 0
	Ост	7 22 8	7 19 31		Oct.	4 13 18	4 1 2
	Nov	6 10 52	6 13 58		Nov.	8 2 2	2 13 88
	DEC	5 23 36	6 7 47	,		(21446	2 4 44
1	0	20 17 58	20 9 29		DEC	{	81 22 8
	1	1 '	)				

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1055.	<b>T</b>	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	d. h. m.	A.D. 1058.		d. h. m.	d. h. m.
	JAN	30 16 14	30 16 43	March.	JAN	27 7 25	27 4 28
March.	FEB			d. h. m.	FEB	25 20 9	25 15 31
d. h. m. 15 11 12	MAR	∫ 1 4 59	1 11 7	<b>15 4 3</b> 9	MAR	27 8 53	27 3 7
10 22 12	MIAK.,	130 17 43	31 3 58		APRIL	25 21 37	25 15 40
	. 0	$\int_{0.0}^{14} 12 = 5$	14 8 32		MAY .	25 10 21	25 5 28
	APRIL	(29 6 27	29 18 22		JUNE .	23 23 5	23 20 23
	MAY.	28 19 11	29 6 6		JULY.	23 11 49	23 11 58
	June .	27 7 55	27 15 35		Aug	22 0 33	22 3 30
	JULY.	26 20 39	26 23 46		SEPT	20 13 17	20 18 25
	Aug	25 9 23	25 7 38		Ocr	20 2 1	20 8 23
	SEPT	23 22 7	23 16 9		Nov	18 14 45	18 21 19
	O	8 16 29	8 17 2		DEC	18 3 29	18 9 14
	Nov	(28 10 51	23 2 0		•		
	1	21 23 35	21 13 36	1059.	T	(16 16 19	10 00 10
1	DEC	21 12 19	21 3 9	0.	Jan	∫16 16 13	16 20 10
1056.	JAN	20 1 4	19 18 29			15 4 57	31 14 22
G.F.	FEB.	18 13 48		15 10 28	FEB Mar	15 4 57	15 6 15
14 17 1	MAR.	19 2 32		10 10 20		16 17 41	16 15 42
12 20 1	0	( 2 20 54	19 4 15		APRIL	15 6 25	15 1 9
	APRIL	17 15 16	3 0 58 17 20 56		MAY.	14 19 9	14 11 18
	MAY .	17 4 0	17 12 15		June.	13 7 53	12 23 0
	June .	15 16 44	16 1 39		JULY.	$\begin{cases} 12 & 20 & 37 \\ 27 & 11 & 22 \end{cases}$	12 12 38
	July .	15 5 28	15 18 6		. 0	27 14 59	27 15 33
	Aug	18 18 12	18 28 7		Aug	11 9 21	11 4 10
1	SEPT	(12 6 56	12 8 28		SEPT	9 22 5	9 20 56
	0	\{27 1 18	26 16 41		Oct	9 10 49	9 14 2
1	Ocr	11 19 40	11 17 58		Nov	7 23 33	8 6 30
1	Nov	10 8 24	10 4 7		DEC	7 12 17	7 21 37
	DEC	9 21 8	9 15 10				
				1060.	JAN	$\int 6 1 2$	6 10 56
1057.	JAN.,	8 9 52	8 8 13	В.А.	0	l 20 19 24	20 14 29
E.	Fив	6 22 86	6 16 17		FEB	4 13 46	4 22 20
14 22 50	MAR	8 11 20	8 6 25	14 16 17	MAR	5 2 30	5 7 59
	0	128 5 42	28 17 2		APRIL	8 15 14	3 16 24
1	APRIL	7 0 4	6 21 29		MAY .	8 8 58	3 0 17
1	MAY.	6 12 48	6 18 4		June .	1 16 42	1 8 33
1	June.	5 1 32	5 4 37			1 5 26	30 18 18
	JULY.	4 14 16	4 19 25		July O	15 23 48	16 6 41
	Aug	8 8 0	8 9 2			<sup>(</sup> 30 <b>1</b> 8 <b>1</b> 0	30 6 21
	SEPT	1 15 44	1 21 25		Aug	29 6 54	28 21 4
	0	(16 10 6	15 20 12		SEPT	27 19 38	27 14 9
	Ocr	$\begin{bmatrix} 1 & 4 & 28 \\ 80 & 17 & 12 \end{bmatrix}$	1 8 54 80 19 58		Oct	27 8 22	27 8 37
	Nov	29 5 56	29 6 44		Nov	25 21 6	26 8 6
	DEC	28 18 40	28 17 34		DEC	25 9 50	25 20 16
			Ox				
	-	·					

Mean Vernal	Month.	Mean New Moon. () Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon.
Equinox.		(O Full Edi.)	(O Fun Boil)	Equinox.		(O 1 am 2011)	
A.D. 1061.		d. h. m.	d. h. m.	A.D. 1064.		d. h. m.	d. h. m.
G.	0	§ 9 4 13	8 20 34	D.C.	Jan	21 13 45	21 11 19
35	JAN	l <sub>23</sub> 22 35	2 <b>4 1</b> 1 9	March. $d. h. m.$	FEB	20 2 29	20 5 47
$\begin{array}{c c} March. \\ d. h. m. \end{array}$	FEB	22 11 19	22 23 21	14 15 31	MAR	20 15 13	20 23 22
14 22 5	MAR	24 0 3	24 9 8		APRIL	19 3 57	19 14 59
	APRIL	22 12 47	22 17 5		0	(3 22 19	3 16 38
	MAY.	22 1 31	22 0 4		MAY .	18 16 41	19 4 3
	JUNE.	20 14 15	20 7 11		JUNE .	17 5 25	17 14 38
	JULY.	20 2 59	19 15 30	•	July .	16 18 9	16 23 28
		18 15 43	18 2 6		Aug	15 6 53	15 7 34
	Aug	17 4 27	16 15 36		SEPT.	13 19 37	13 15 51
	SEPT					(13 8 21	13 1 8
	Oct	16 17 11	16 8 5		Oct.	28 2 43	28 5 52
	Nov	15 5 55	15 2 49		0		
	DEC	14 18 39	14 22 21		Nov	11 21 5	11 11 55
1000	-	10 7 00	10 10 50		DEC	11 9 49	11 0 28
1062. F.	JAN	13 7 23	13 16 59				i
1	FEB	11 20 7	12 9 21	1065.	JAN	9 22 33	9 14 48
15 3 54	MAR	13 8 51	13 22 42	В.	FEB	8 11 17	8 6 36
	APRIL	11 21 35	12 9 7	14 21 20	MAR	10 0 1	9 23 19
	MAY.	<b>[11 10 19</b> ]	11 17 16		APRIL	8 12 45	8 16 8
	0	26 4 41	26 2 36		MAY .	8 1 29	888
	June.	9 23 3	10 0 9		June .	6 14 13	6 22 32
	JULY .	9 11 47	9 6 50		JULY.	6 2 57	611 2
	Aug	8 0 31	7 14 26		Aug.	4 15 41	4 21 54
	SEPT	6 13 15	5 23 59	[]	SEPT.	3 4 25	3 7 45
	Oct	6 1 59	5 12 15		Ост.	2 17 9	2 17 21
	Nov	f 4 14 48	3 4 3 34	11	001.	(1 5 53	1 3 17
	0	19 9 8	5 19 13 48		Nov	30 18 37	80 13 57
	DEC.	. 4 3 27	3 21 29		70	1 -	30 1 28
	İ				DEC	30 7 21	50 1.20
1063.	JAN.	. 2 16 12	2 16 50	1			
E.	FEB.	. 1 4 56	1 11 58	1066.	JAN	28 20 6	28 18 51
15 9 43	MAR.	. 2 17 40	3 5 20	A.	FEB	27 8 50	27 8 10
	A	∫ 1 6 2 <sub>4</sub>	1 19 57		0	14 3 12	14 16 1
	APRIL	' ∫(30 19 €	3 1 7 33	15 3 9	MAR	28 21 34	28 17 28
	0	(15 13 3			APRIL	27 10 18	27 8 38
	MAY	. \ \ 30 7 5	2 30 16 36		MAY .	26 23 2	27 0 8
	June	. 28 20 36	3 29 0 5		JUNE .	25 11 46	25 15 28
	JULY	. 28 9 20			JULY .	25 0 30	25 5 48
	Aug.	1	4 26 14 42		Aug	23 13 14	23 19 8
	SEPT.	1			0	(7 7 86	1
	Oct.	. 24 23 3			SEPT	22 1 58	
	0	(8175	1		Oct	21 14 42	1
	Nov.	14	1	H	Nov.	20 3 26	ł
	-	1	0 22 17 20	11	DEC.	19 16 10	1
			22 1. 20		- EU	10 10 10	10 10 00
<u> </u>		1	1	D	l	l	1

		- Hitchian bridges was	1 min water.	The state of the s	· · · · · · · · · · · · · · · · · · ·		
Mean Vernal Equinox.	Month,	Mean New Moon. (D Full Ecl.)	True New Moon, (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1067.	***************************************	d. h. m.	d. h. m.	A.D. 1070,		d. h. m.	d. h. m.
11,	JAN.	18 4 55	18 8 26	c.	JAN	14 20 5	15 8 13
	Frn.	16 17 89	16 14 10	March.	FEB	18 8 49	18 21 44
March.	()	( 8 12 1	4 1 20	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAR.	14 21 88	15 8 34
16 H IN	MAR.	118 6 23	18 1 8	AU	APRIL	18 10 17	18 17 10
1	Arnii.	16 19 7	16 12 52		MAY.	12 28 1	
4	MAY .	16 7 61	16 1 48		June .	(11 11 45	18 0 24 11 7 15
	Jinn.	14 20 85	14 16 8				
	July .	14 9 19	11 7 24		O July.	11 0 29	26 12 18
	Aro.		12 23 11				10 14 49
	<i>(</i> )	127 16 25	27 6 81		Aug	9 18 18	9 0 9
	Sert.	11 10 47	11 14 45		SEPT	8 1 57	7 12 11
, ,	Oct.	10 28 81	11 5 82		Oct	7 14 41	7 8 21
•	Nov.	9 12 15	9 19 15		Nov	6 8 25	5 21 11
į į	DEC.	9 0 59	9 7 49		DEG	$\begin{cases} 5 & 16 & 9 \\ 20 & 10 & 9 \end{cases}$	5 16 85
	*****		D 1 40		0	(20 10 81	20 8 15
1088.	Jan	7 18 48	7 19 16				
) , Si.	Fan.	6 6 2 27	6 5 89	1071.	JAN	4 4 58	4 11 54
ŧ	()	20 20 49	21 8 25	В.	FEB	2 17 87	<b>3</b> 5 80
14 11 47	MAH.	6 15 11	6 15 10	15 8 13	MAR	4 6 21	4 20 20
** ** **	Arsı	5 8 55	5 0 16		APRIL	2 19 5	8 8 6
	May .	4 16 39	4 9 48		MAY.	$\int 2 749$	2 17 11
	Jenn.	8 5 28	2 20 22		11.22.1	<b>\ 81 20 88</b>	(1 0 81
	Jery.	2 14 7	12 4 55		0	∫15 14 55	15 13 29
1		1 6 51	81 28 82		June.	180 9 17	(80 7 10
ŧ	Avo.	16 1 18	15 28 10		July.	29 22 1	29 14 14
y y	Ala.	80 19 85			Aug	28 10 45	27 22 47
o of		1	ŧ.		SEPT	26 28 29	<b>2</b> 6 9 <b>4</b> 3
-	Barr.	29 8 19	29 9 14		Ocr	26 12 18	25 28 85
1	Oct.	29 21 8	29 2 28		Nov	25 0 57	24 16 18
	Nov.	27 9 47	27 18 29		0	9 19 19	9 28 56
3	Dat.	26 22 81	27 8 50		DEC	24 18 41	24 11 4
1069.	JAN	25 11 16	25 21 12				
13.	Fun.	24 0 0	24 7 84	1072.	JAN	28 2 26	28 6 25
14 20 80	Man.	25 12 44	25 16 21	A.G.	FEB	21 15 10	22 0 44
	Arnii.	24 1 28	21 0 11	14 14 2	MAR	22 8 54	22 16 48
P. n	Mar .	28 14 12	28 7 58		APRIL	20 16 88	21 5 45
	Juna .	22 2 56	1		MAY .	20 5 22	20 15 58
	July .	21 15 40			June .	18 18 6	19 0 9
	Aug.	20 4 24			JULY .	18 6 50	18 7 21
1	BEPT.	I			Aug	16 19 84	
1	Oct.	1	1	11	SEPT	15 8 18	14 28 6
4	Nov .		1		Our	14 21 2	14 9 22
*	Date.	1	1		Nov	18 9 46	12 22 1
	U.	81 1 42	1	11	DEC	12 22 80	12 18 5
		1	1				1
1				petronico-compensario concentration	Carrier of Marrier and Marrier and American		

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1073.		d. h. m.	d. h. m.	A.D. 1076.		d. h. m.	d. h. m.
F.	JAN	11 11 14	11 6 12	C.B.	JAN	9 2 24	9 2 30
March. $d. h. m.$	FEB	9 23 58	10 0 23	March. $d. h. m.$	FEB .	7 15 8	7 13 4
14 19 51	MAR	11 12 42	11 18 22	14 13 17	MAR	8 3 52	7 23 86
	APRIL	(10 1 26	10 10 58		APRIL	6 16 86	6 10 86
	0	(24 19 48	24 16 8		MAY .	6 5 20	5 22 87
	MAY .	9 14 10	10 1 17		June .	4 18 4	4 12 2
	June .	8 2 54	8 13 6		July.	4 6 48	4 2 51
	JULY.	7 15 38	7 22 50		Aug	2 19 32	2 18 86
	Aug	6 4 22	6 7 21		Cura	1 8 16	1 10 36
	Sept	4 17 6	4 15 37		SEPT	30 21 0	(127
	Oct	∫ 4 5 50	4 0 31		Ост	80 9 44	180 16 40
	0	(19 0 12	19 0 39		Nov	28 22 28	29 6 2
	Nov	2 18 34	2 10 39		DEC	28 11 12	28 18 7
i i	Dec	§ 2 7 18	<b>1 2</b> 2 20				
	DE0	(31 20 2	31 11 41	1077.	JAN	26 28 57	27 4 58
1074.	JAN	30 8 46	30 2 34	Α.	0	(10 18 19	10 22 0
E.	FEB	28 21 31	28 18 39		FEB	25 12 41	25 14 48
15 1 40	MAR.	30 10 15	30 11 17	14 19 6	MAR	27 1 25	26 28 42
10 1 10	0	(14 4 37	14 8 43		APRIL	25 14 9	25 8 88
	APRIL	28 22 59	29 3 38		MAY .	25 2 58	24 18 28
	MAY.	28 11 43	28 18 51		JUNE.	28 15 87	28 5 47
	June .	27 0 27	27 8 25		July.	28 4 21	22 19 20
	JULY.	26 13 11	26 20 14		0	6 22 48	6 28 18
1	Aug	25 1 55	25 6 45		Aug	21 17 5	21 10 59
	SEPT	23 14 39	23 16 38		SEPT	20 5 49	20 4 10
	0	(8 9 1	8 0 11		Ocr	19 18 83	19 21 47
	Ocr	23 3 23	23 2 33		Nov	18 7 17	18 14 46
	Nov	21 16 7	21 12 59		Dec	17 20 1	18 6 12
	DEC	21 4 51	21 0 4				į
1075.	JAN	19 17 35	19 11 51	1078.	JAN	(16 8 46	16 19 87
D.	FEB.	18 6 19	18 0 25	G.	0	(81 8 8	80 22 26
15 7 29	MAR.	19 19 4	19 13 57		FEB	14 21 80	15 6 51
	0	( 3 13 26	4 0 53	15 0 55	MAR	16 10 14	16 16 12
ŀ	APRIL	18 7 48	18 4 26	İ	APRIL	14 22 58	15 0 14
	MAY .	17 20 32	17 19 38		MAY.	14 11 42	14 7 45
	JUNE .	16 9 16	16 11 4		June .	18 0 26	12 15 46
	JULY.	15 22 0	16 2 4		JULY.	$\int 12 \ 13 \ 10$	12 1 21
	Aug	14 10 44	14 16 7	•	. 0	27 7 32	27 14 0
	SEPT	(12 23 28	13 5 6		Aug	11 1 54	10 18 28
	0	27 17 50	27 3 59		SEPT	9 14 88	9 4 15
	Oct	12 12 12	12 17 10		Ocr	9 8 22	8 21 86
	Nov	11 0 56	11 4 37		Nov.	7 16 6	7 16 25
	DEC	10 13 40	10 15 41		DEC	7 4 50	7 11 18
1	I	1					1

Mean Vernal Equinox,	Month.	Mean New Moon. ( Full Ect.)	True New Moon.	Mean Vernai Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
	1997 MILET AMORPHORISMOS (LET	Marin I de las el casas de Cas	**************************************		***************************************	(O Fun E01.)	(O B uni E01.)
A.D. 1079.		đ. h. m.	d. h. m.	A.D. 1082.		d. h. m.	d. h. m.
¥.	JAN	[ 5 17 81	6 4 81	в.	JAN	(2844	2 1 33
March.	()	(20 11 56	20 5 8		JAN	(81 21 28	31 19 8
d. h. ia.	FEB	4 6 18	4 19 27	March.	FEB	•••	
15 6 43	MAR.	5 19 2	6 7 81	d. h. m. 15 0 10	MAR	( 2 10 12	2 13 9
	Arkn.	4 7 46	4 17 1	10 0 10	MINIC.	<b>\81 22 5</b> 6	(1 6 25
	MAY .	8 20 80	4 (142)		APRIL	<b>30 11 4</b> 0	(30 21 51
1	JUNK.	2 9 14	2 7 82		0	$\int 15 \ 6 \ 2$	15 0 0
,	Juny .	( 1 21 68)	1 14 82		MAY.	(80 0 24	80 10 55
		(31 10 42	80 22 52		JUNE.	28 13 8	28 21 43
1	Ara	20 28 26	29 9 82		July.	28 1 52	28 6 55
		2H 12 10	27 28 12		Aug	26 14 86	26 15 24
	Oct.	28 0 54	27 15 52		Sept	<b>25 8 2</b> 0	25 0 6
	Nov.	26 18 84	26 10 44		Oct	21 16 4	24 9 44
	Dac.	26 2 22	26 6 20		0	8 10 26	8 13 45
1000	•	01 12 7	07 O 70		Nov	23 4 48	22 20 41
1080.	JAN,	21 15 7	25 0 58		Drc	22 17 32	22 9 9
	Fen.	23 8 51	28 17 14	1083.	JAN	21 6 17	20 23 8
11 12 33	MAR.	23 16 85 22 5 19	21 6 26	۸.	FEB.	19 19 1	19 14 23
	Armi	1 .	22 16 48 22 0 45	15 5 59	MAR	21 7 45	21 6 83
	MAY .	21 18 8	5 9 6		APRIL	19 20 29	19 22 56
	June .	[ 5 12 25 [ 20   6 47 ]	20 7 86		MAY.	19 9 18	19 14 42
	July .	19 19 81	19 14 22		June .	17 21 57	18 5 11
	Attu	18 8 15	17 22 9		July .	17 10 41	17 18 0
	Bert.	16 20 59	16 7 54		Aug	15 28 25	16 5 20
	Chr.	16 9 48	15 20 20		SEPT	14 12 9	14 15 48
	Nov.	(14 22 27	14 11 48		Ocr	14 0 58	14 1 48
		29 18 49	20 22 87		Nov	12 18 87	12 12 8
	Disc.	14 11 11	14 5 88		DEC	12 2 21	11 22 55
	*******	1		1084.	JAN	10 15 6	10 10 16
1081.	JAN	12 28 56	18 0 48	a.r.	FEB.	9 8 50	8 22 18
<b>\$</b> +,	Frn	11 12 40	11 19 87	14 11 48	MAR.	( 9 16 81	9 10 57
11 18 22	MAR.	18 1 24	18 12 47		0	24 10 56	24 28 52
	Arni	11 14 8	12 8 14		APRIL	8 5 18	8 0 88
	Mar .	(11 2 52	11 14 47		MAY .	7 18 2	7 15 18
	6. 3	25 21 14	25 12 57		June .	6 6 46	6 6 85
	June .	9 15 86	9 28 54		JULY.	5 19 80	5 21 54
1	July .	9 4 20	9 7 82	1	Aug.	4 8 14	4 12 40
	Aug	7 17 4	7 14 48		SEPT	2 20 58	1
	Bart	6 5 48	5 22 42		0	17 15 20	17 1 28
	Ocr	5 18 82	588	1	Oct	3 9 42	2 15 16
	Nov	4 7 16	l .		JUT	81 22 20	) 1 0 10
	0	§ 19 I 84	-		Nov	80 11 10	1
è	DEC	8 20 0	8 9 20		DEC	29 28 54	80 1 87
	1	j .	1		1		1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1085.		d. h. m.	d. h. m.	A.D. 1088.		d. h. m.	d. h. m.
E.	JAN	28 12 38	28 12 9	B.A.	0	11 9 26	11 2 52
	FEB	27 1 22	26 22 26	, , l	JAN	26 3 48	26 16 30
March.	0	(13 19 44	14 8 54	March. d. h. m.	FEB	21 16 32	25 5 54
d. h. m. 14 17 37	Mar	28 14 6	28 8 52	14 11 3	MAR	25 <b>5 1</b> 6	25 16 81
11 11 01	APRIL	27 2 50	26 20 2		APRIL	23 18 0	24 0 58
	MAY.	26 15 34	26 8 30		MAY .	28 6 44	28 7 55
	June .	25 4 18	24 22 32		JUNE .	21 19 28	21 14 39
	JULY.	24 17 2	24 13 57		0	( 6 13 50	6 18 56
	Aug	23 5 46	23 6 6		July.	21 8 12	20 22 11
	0	(7 0 8	6 14 28		Aug	19 20 56	19 7 36
	SEPT.	21 18 30	21 22 11		SEPT	18 9 40	17 19 48
	Oct	21 7 14	21 13 34		Oct	17 22 24	17 11 5
	Nov.	19 19 58	20 3 48		Nov.	16 11 8	16 5 8
	DEC	19 8 42	19 16 39		DEC	(15 28 52	16 0 81
	DE0	10 0 12	10 10 00		0	80 18 14	30 17 11
	_	45 04 00	10 1 0			(00 20 21	
1086.	Jan	17 21 26	18 4 6	1089.	JAN	14 12 36	14 19 50
D.	FEB	16 10 11	16 14 14	G.	FEB	13 1 21	18 18 28
		( 3 4 33	3 10 50	14 16 52	MAR.	14 14 5	15 4 5
14 23 26	MAR	17 22 55	17 23 19		APRIL	<b>13 2 4</b> 9	18 15 41
	APRIL	16 11 39	16 7 58		MAY .	12 15 33	18 0 41
	MAY .	16 0 23	15 16 58		JUNE .	(11 4 17	11 7 59
	JUNE.	14 13 7	14 3 16		0	25 22 89	25 19 55
	July.	14 1 51	13 15 38		JULY .	10 17 1	10 14 42
	Aug	12 14 35	12 6 20		Aug.	9 5 45	8 21 54
	~ 0	27 8 57	27 7 4		SEPT.	7 18 29	7 6 40
	SEPT	11 3 19	10 23 0		Ocr.	7 7 18	6 17 48
	Oct	10 16 3	10 16 45		Nov.	5 19 57	5 7 47
,	Nov	9 4 47	9 10 26		DEC	(5 8 41	5 0 27
	DEC	8 17 31	9 2 56		0	20 8 8	20 8 51
1087.	JAN	7 6 15	7 17 29	1090.	JAN	8 21 25	8 19 8
C.	FEB	5 18 59	6 5 45	F.	FEB	2 10 9	211 9
15 5 15	MAR	7 7 43	7 15 51	14 22 41	MAR	8 22 58	4 8 12
	APRIL	5 20 27	6 0 17		APRIL	2 11 87	2 23 59
	MAY .	5 9 11	5 7 47		7.07	(2 0 21	2 12 55
	JUNE .	3 21 55	3 15 16		MAY .	(81 18 5	81 28 10
	JULY.	3 10 39	2 23 52		June .	80 1 49	80 7 29
	Aug	ſ 1 23 23	1 10 33		July .	29 14 88	29 14 56
	_	31 12 7	31 0 3		Aug	28 8 17	27 22 81
	SEPT	30 0 51	29 16 21		SEPT	26 16 1	26 7 19
	Ост	29 13 35	29 10 46		Ocr	26 4 45	<b>25 17 5</b> 0
	Nov	28 2 19	28 5 54		Nov	24 17 29	24 6 88
	DEC	27 15 3	28 0 15		DEC	24 6 18	28 21 27
	1						

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (○ Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1091.		d. h. m.	d. h. m.	A.D. 1094.		d. h. m.	d. h. m.
E.	JAN	22 18 58	22 14 12	Α.	Jan	19 10 8	19 11 21
March. $d. h. m.$	FEB	21 7 42	21 7 57	March.	FEB	17 22 52	17 21 33
15 4 30	MAR	22 20 26	23 1 30	d. h. m. 14 21 56	MAR.	19 11 36	19 7 34
	APRIL	21 9 10	21 17 50	TT 21 00	APRIL	18 0 20	17 18 1
	0	(6 3 32	5 23 39		MAY.	17 13 4	17 5 32
	MAY.	20 21 54	21 8 5		June .	16 1 48	15 18 38
	June.	19 10 38	19 20 4		JULY.	15 14 32	15 9 22
	JULY.	18 23 22	19 6 7		Aug.	14 3 16	14 1 23
	Aug	17 12 6	17 15 1		SEPT.	12 16 0	12 17 49
	SEPT	16 0 50	15 23 45		Oct	12 4 44	12 9 56
	Oct	(15 13 34	15 9 3		Nov.	10 17 28	11 1 3
	0	(30 7 56	30 8 23		DEC.	10 6 12	10 14 46
	Nov	14 2 18	13 19 26				
	DEC	13 15 2	13 7 8	1095.	JAN.	8 18 57	9 2 59
1092.	~	10 0 47	11 00 11	G.	FEB.	(7 7 41	7 13 33
D.C.	JAN.	12 3 47	11 20 14		) FEB	$\begin{cases} 22 & 2 & 3 \end{cases}$	22 5 30
	FEB.	10 16 31	10 10 38	15 3 45	MAR.	8 20 25	8 23 1
14 10 19	MAR.	11 5 15	11 2 7	10 0 40	APRIL	7 9 9	7 7 35
	APRIL	9 17 59	9 18 13		MAY.	6 21 53	6 16 4
	MAY.	9 6 43	24 16 29 9 10 14		JUNE .	5 10 37	5 1 26
	1	7 19 27	8 1 25		July.	4 23 21	4 12 35
	JUNE.	7 8 11	7 15 12		Aug.	( 3 12 5	3 2 7
	Aug.	5 20 55	6 3 27		0	18 6 27	18 6 58
	SEPT.	4 9 39	4 14 29		SEPT.	2 0 49	1 17 59
	Oct.	( 3 22 23	4 0 55			( 1 13 33	1 11 31
	001.	18 16 45	18 7 50		Oct	$\{31 \ 2 \ 17$	31 5 36
	Nov.	2 11 7	2 11 18		Nov.	29 15 1	29 23 2
	1107.	( 1 23 51	1 21 56		DEC	29 3 45	29 14 41
	DEC	81 12 85	31 8 58				
1	_	1		1093.	JAN	27 16 29	28 4 9
1003.	JAN.		29 20 25	F.E.	0	(11 10 51	11 6 17
1	FEB.	28 14 8	28 8 28		FEB	26 5 13	26 15 13
11 16 8	MAR	80 2 47	29 21 21	14 9 31		26 17 57	27 0 16
	0	(13 21 9	14 8 83		APRIL	25 6 41	25 7 57
	APRIL	17	28 11 16		MAY .	24 19 25	24 15 10
	MAY .		28 2 7		June .		22 22 58
	June .		26 17 29		JULY.	1	22 8 28
	JULY .		26 8 45 24 23 18		0	( 6 15 15	6 21 22
	Aug.		23 12 53		Aug.	21 9 37	20 20 33
	SEPT.				SEPT.	19 22 21	19 11 35
	0	$\begin{cases} 8 & 1 & 38 \\ 22 & 19 & 55 \end{cases}$			Oct.	. 19 11 5	19 5 11
	Nov.	04 0 00	21 13 25		Nov.	17 23 49	18 0 17
	10	00 01 09			DEC.	. 17 12 38	17 19 20
	DEC.	. 20 21 25	21 0 38		1		ļ

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1097.		d. h. m.	d. h. m.	A.D. 1100.		d. h. m.	d. h. m.
D.	JAN	(16 1 18	16 12 48	A.G.	JAN	13 16 28	13 9 46
1	0	30 19 40	30 13 28	March. $d$ . $h$ . $m$ .	FEB	12 5 12	12 2 53
March.	FEB	14 14 2	15 3 38	14 8 49	MAR	12 17 56	12 20 25
d. h. m. 14 15 23	MAR	16 2 46	16 15 31		APRIL	11 6 40	11 18 20
11 10 10	APRIL	14 15 30	15 0 49		MAY.	(10 19 24	11 4 37
	MAY.	14 4 14	14 8 17		0	25 13 46	25 7 21
	JUNE.	12 16 58	12 14 59		June .	9 8 8	9 17 46
	JULY.	12 5 42	11 21 58		JULY.	8 20 52	9 4 51
	Aug	10 18 26	10 6 22		Aug.	7 9 36	7 14 25
	SEPT	9 7 10	8 17 10		SEPT	5 22 20	5 28 21
	Oct	8 19 54	8 6 58		Oct	5 11 4	5 8 30
	Nov.	7 8 38	6 23 46		Nov.	( 3 23 48	3 18 29
		6 21 22	6 18 41		0	18 18 10	18 21 42
	DEC	0 21 22	0 10 41		DEC	3 12 32	8 5 88
	_				DEC	0 12 02	3 5 55
1098.	JAN	5 10 7	5 14 18			(2 1 16	1 17 51
C.	FEB	3 22 51	4 8 50	1101.	Jan	81 14 0	81 7 23
14 21 12	MAR	5 11 35	6 0 58	F.	FEB	(11 14 0	
	APRIL	4 0 19	4 14 1		TED.	(2 2 44	1 22 4
	MAY .	3 13 3	4 0 10	14 14 38	MAR	81 15 28	81 18 89
	June.	2 1 47	2 8 10		APRIL	30 4 12	80 5 35
	JULY .	5 1 14 31	1 15 4		MAY.	29 16 56	29 21 12
	oull .	(31 3 15	30 23 59				28 11 49
	Aug	29 15 59	29 5 59		JUNE.		28 1 0
1	Sept.	28 4 43	27 <b>1</b> 5 57		JULY.	27 18 24	
	Ост	27 17 27	27 4 34		Aug	26 7 8	26 12 51
	Nov	26 6 11	25 19 56		SEPT	24 19 52	24 28 47
	0	§11 0 83	11 7 28		Oct	24 8 36	24 10 28
	Dec	₹25 18 55	25 13 38		Nov.	22 21 20	22 21 1
					DEC	22 10 4	22 7 51
1099.	JAN	24 7 39	24 8 31	1102.	JAN	20 22 48	20 18 58
В.	FEB	22 20 23	23 <b>3</b> 8	E,	FEB.	19 11 32	19 6 27
15 3 1	MAR	24 9 7	24 20 2	14 20 27	MAR.	21 0 17	20 18 85
	APRIL	22 21 51	23 10 22	1 20 21		(4 18 39	5 7 85
1	MAY .	22 10 35	22 21 53		O April	19 18 1	19 7 41
	0	(6 4 57	5 19 49		MAY.	19 1 45	18 21 54
	June.	20 23 19	21 7 8		June .	17 14 29	17 12 51
	July.	20 12 3	20 15 0		JULY.	17 14 25	17 4 28
1 "	Aug	19 0 47	18 22 34		Aug.		
1	SEPT	17 13 31	17 6 51			15 15 57	
	Ост	17 2 15	16 16 34		SEPT	14 4 41	14 10 0
	Nov	(15 14 59	15 4 13		O	(28 28 8	28 9 18
	0	30 9 21	30 18 11		Oct	13 17 25	18 28 24
	DEC	15 3 43	14 18 0		Nov	12 6 9	12 11 58
1					DEC	11 18 53	11 28 84

Mean Vernal Equinox.	Month.	Mean New   Moon. O Full Ecl.) (C	True New Moon. Full Ecl.)	Mean Vernal Equinox,	Month.	Mean New Moon. O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 1103. D. March. d. h. m. 15 2 16	JAN FEB MAR	d. h. m.  10 7 37 8 20 21 10 9 6 25 3 28 8 21 50 8 10 34 6 28 18 6 12 2 5 0 46 3 18 30 18 7 52 3 2 14 1 14 58	d. h. m.  10 10 31  8 20 47  10 6 38  25 16 19  8 16 31  8 3 9  6 15 14  6 5 6  4 20 37  3 13 7  17 22 36  3 5 46  1 21 44	Vernal Equinox.  A.D. 1106. G.  March. d. h. m. 14 19 42	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT	Moon. O Full Ecl.)(()  d. h. m.  \[ \begin{array}{c} 6 22 48 \\ 21 17 10 \\ 5 11 32 \\ 7 0 16 \\ 5 18 0 \\ 5 1 44 \\ 3 14 28 \\ \begin{array}{c} 8 3 12 \\ 17 21 34 \\ 1 15 56 \\ 31 4 40 \\ 29 17 24 \\ 29 6 8 \end{array}\]	Moon. Full Ecl.)  d. h. m.  7 8 26 21 11 29 6 0 39 7 13 56 6 0 20 5 8 30 3 15 23 2 22 5 18 1 36 1 5 41 30 15 14 29 3 35 28 19 0
1104. c.B.	JAN FEB OMAR APRIL MAY . JUNE . JULY . AUG OSEPT OCT Nov	$ \begin{cases} 1 & 3 & 42 \\ 30 & 16 & 26 \end{cases} $ $ 29 & 5 & 10 \\ 27 & 17 & 54 \\ 13 & 12 & 16 \\ 28 & 6 & 38 \\ 26 & 19 & 22 \\ 26 & 8 & 6 \\ 24 & 20 & 50 \\ 24 & 9 & 34 \\ 22 & 22 & 18 \\ 6 & 16 & 40 \\ 21 & 11 & 2 \\ 20 & 28 & 46 \\ 19 & 12 & 30 \end{cases} $	1 12 24 31 1 27 29 12 50 27 22 40 13 18 3 28 7 21 26 15 32 26 0 9 21 10 11 28 22 28 22 13 14 6 15 5 21 6 12 21 0 23 19 18 31	1107. F. 15 1 31	Nov DEC  O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT Nov DEC	27 18 52 27 7 36 {11 1 58 {25 20 20 24 9 4 25 21 48 24 10 32 23 23 16 22 12 0 { 7 6 22 { 22 0 44 20 13 28 19 2 12 18 14 56 17 3 40 (16 16 24	27 18 8 27 8 30 11 2 5 26 3 42 24 21 5 26 11 38 24 28 6 24 8 8 22 15 22 7 2 23 21 22 13 20 5 41 18 14 42 18 2 2 16 16 3 16 8 38
1105. A. 14 18 54	DEC  JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	12 7 7 10 19 51 10 8 85 8 21 19		3	JAN FEB	31 10 46 15 5 9 18 17 58 14 6 37 12 19 21 12 8 5 10 20 49 10 9 83 8 22 17	81 17 44 15 2 59 13 21 45 14 15 30 18 7 6 12 19 59 11 6 20 10 14 51 8 22 37 7 6 35 6 15 48 5 2 27

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1109.		d. h. m.	d. h. m.	A.D. 1112.		d. h. m.	d. h. m.
c.	Jan	3 13 58	3 5 51	G.F.	~	(157	1 9 36
d. $h$ . $m$ .	FEB	2 2 42	1 22 9	35 ,	JAN	(30 17 51	80 20 6
14 13 9	MAR	3 15 26	3 15 21	March. $d. h. m.$	FEB	29 6 85	29 5 54
	APRIL	2 4 10	2 8 29	14 6 35	MAR	<b>29 19 1</b> 9	29 15 25
		1 16 54	2 0 35		APRIL	28 8 8	<b>28 1 19</b>
	May O	$  \frac{1}{3}$ 16 11 16	16 7 7		MAY .	27 20 47	27 12 24
		(31 5 38	<b>31 14</b> 50		June .	26 9 81	26 1 14
	JUNE .	29 18 22	30 3 1		July .	25 22 15	<b>25 15 59</b>
	JULY.	29 7 6	29 13 26		Aug	24 10 59	24 8 18
1 .	Aug	27 19 50	27 22 49		SEPT	22 23 48	28 1 9
	SEPT	26 8 <b>34</b>	26 8 2		Ост	22 12 27	22 17 50
	Ост	25 21 <b>1</b> 8	25 17 42		Nov	21 1 11	21 9 28
	0	5 9 15 40	9 16 12		DEC	20 18 55	20 28 80
	Nov	24 10 2	24 <b>4</b> 18				
	DEC	23 22 46	23 15 56	1113. E.	JAN	19 2 40	19 11 44
1110.	JAN	22 11 30	22 4 42	E.	FEB	17 15 24	17 22 11
В.	FEB.	21 0 14	20 18 33		0	§ 4 9 46	4 12 51
14 18 57	MAR.	22 12 58	22 9 25	14 12 24	MAR	(19 4 8	19 7 11
11 10 01	APRIL	21 1 42	21 1 1		APRIL	17 16 52	17 15 19
	0	(5 20 4	6 0 6		MAY.	17 5 86	16 28 24
	MAY .	20 14 26	20 16 44		June.	15 18 20	15 8 28
	JUNE.	19 3 10	19 7 56		JULY.	15 7 4	14 19 28
	JULY.	18 15 54	18 21 59		Aug	(18 19 48	18 9 0
	Aug	17 4 38	17 10 44		0	28 14 10	28 14 50
	SEPT	15 17 22	15 22 21		SEPT	12 8 82	12 1 4
	Ост	(15 6 6	15 9 20		Oct	11 21 16	11 18 58
	0	30 0 28	29 15 36		Nov	10 10 0	10 18 81
	Nov	13 18 50	13 20 6		DEC	9 22 44	10 7 18
	DEC	13 7 34	13 6 53	1114.	JAN	8 11 29	8 28 18
1111.	JAN	11 20 19	11 17 50	D.	FEB.	(7 0 18	7 12 87
A.	FEB.	10 9 3	10 4 54		0	21 18 85	21 14 8
15 0 46	MAR.	11 21 47	11 16 23	14 18 13	MAR	8 12 57	8 28 27
	APRIL	(10 10 31	10 4 39		APRIL	7 1 41	7 8 12
	0	25 4 53	25 16 8		MAY .	6 14 25	6 15 85
	MAY .	9 28 15	9 18 3		June .	5 8 9	4 22 84
	JUNE.	8 11 59	8 8 38		JULY.	4 15 58	4 6 15
	JULY.	8 0 43	7 23 59		Aug	(8 4 87	2 15 48
	Aug	6 13 27	6 15 31		0	{17 22 59	18 4 49
	SEPT	5 2 11	5 6 35		SEPT	1 17 21	ſ 1 8 52
	Oct	( 4 14 55	4 20 48		0.00	(165	80 19 4
	0	(19 9 17	18 19 59		Ocr	(80 18 49	80 12 58
	Nov	3 3 39	3 10 1		Nov	29 7 88	29 8 14
	DEC	2 16 23	2 22 15		DEC	28 20 17	29 8 25
	1	<u> </u>					

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 111 5. c.	_	d. h. m.	d. h. m.	A.D. 1118.		d. h. m.	d. h. m.
\	JAN	27 9 1	27 20 55	F. March.	JAN	24 0 11	23 17 54
March.		$\int 11 \ 3 \ 23$	10 21 49	d. $h.$ $m.$	<b>Г</b> ев	22 12 55	22 10 28
d. h. m.	FEB	(25 21 45	26 11 39	14 17 28	MAR	24 1 39	24 3 31
15 0 2	MAR	27 10 29	27 23 22		APRIL	22 14 23	22 20 5
	APRIL	25 23 13	26 8 27		MAY .	22 3 7	22 11 16
	MAY.	25 11 57	25 15 46		0	r 5 21 29	5 14 38
	June .	24 0 41	23 22 24		June .	$(20\ 15\ 51)$	21 0 33
	July.	23 13 25	23 5 26		July .	20 4 35	20 11 58
	. 0	7 7 47	7 12 12		Aug	18 17 19	18 22 0
	Avg	(22 2 9	21 13 58		SEPT	17 6 3	17 7 26
	SEPT	20 14 58	20 0 56		Ост	16 18 47	16 17 3
	Ост.	20 3 37	19 14 53		Nov	(15 7 81)	15 3 18
i	Nov.	18 16 21	18 7 46		0	(30 1 53	30 5 42
	DEC.	18 5 5	18 2 41		DEC	14 20 15	14 14 25
4440	т	10 15 50	70 00 71				
1116.	JAN	16 17 50	16 22 11	1119.	JAN	13 9 0	13 2 31
	FEB.	15 6 34	15 16 33	E.	FEB	11 21 44	11 15 34
14 5 50	MAR.	15 19 18	16 8 30	14 23 17	MAR	13 10 28	13 5 39
	APRIL	14 8 2	14 21 25		APRIL	11 23 12	11 20 38
	MAY.	18 20 46	14 7 29		MAY.	11 11 56	11 12 12
	JUNE .	12 9 30	12 15 30		JUNE .	10 0 40	10 3 41
	JULY.	11 22 14	11 22 32		JULY.	9 13 24	9 18 27
1	Aug.	10 10 58	10 5 42		Aug	8 2 8	8 8 3
	SEPT.	8 28 42	8 13 57		SEPT	6 14 52	6 20 29
	Ocr.	8 12 26	8 0 10		Ocr	6 3 36	6 8 1
	Nov.	7 1 10	6 12 54		Nov	4 16 20	4 19 4
	DEC	6 18 54	6 4 14		DEC	4 5 4	4 5 58
	0	121 8 16	21 16 18				
1117.	JAN	5 2 89	4 21 43	1120.	JAN	2 17 49	2 16 50
G.	FEB	8 15 28	8 16 15	D.C.	FEB	1 6 33	1 3 39
14 11 89	MAR.	1	5 10 30	14 5 0	3.5	(1 19 17	1 14 38
12 11 0./	APRIL	8 16 51	4 3 9	14 5 6	MAR	31 8 1	31 2 9
	MAY.	8 5 85	8 17 23		0	(15 2 23	15 15 9
	JUNE .		2 4 57		APRIL	29 20 45	29 14 41
	0	16 12 41	16 2 43		MAY .	29 9 29	29 4 30
		(1 7 8	1 14 23		June .	27 22 13	27 19 27
	Jora .	80 19 47	30 22 32		JULY .	27 10 57	27 11 5
	Aug.	100 000	29 6 30		Aug.	25 23 41	26 2 41
	SEPT.		27 15 10		SEPT.	24 12 25	
	Ocr.	07 0 50	27 1 8	1	0	9 6 47	1
	Nov.	25 22 48	25 12 54		Ост.	. \24 1 9	1
	0	(10 17 5	11 2 39		Nov.		
	DEC.	25 11 27	25 2 33		DEC.	. 22 2 37	22 8 30
	-	1				<u> </u>	<u> </u>
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1121.		d. h. m.	d. h. m.	A.D. 1124,		d. h. m.	d. h. m.
в.	JAN	20 15 21	20 19 22	F.E.	JAN	18 6 31	18 16 29
March. $d. h. m.$	FEB	19 4 5	19 5 20	75 .	0	(2 0 53	1 20 1
14 10 55	MAR	20 16 49	20 14 41	March. $d. h. m.$	FEB	16 19 15	17 8 39
	0	( 4 11 11	4 23 33	14 4 21	MAR	17 7 59	17 21 47
	APRIL	19 5 33	19 0 1		APRIL	15 20 43	16 8 0
	MAY .	18 18 17	18 10 11		MAY .	15 9 27	15 16 0
	June.	17 7 1	16 21 57		June .	13 22 11	13 22 50
1	JULY.	16 19 45	16 11 42		July.	(13 10 55	13 5 33
	Aug	15 8 29	15 3 21		0	28 5 17	28 8 18
	SEPT	(13 21 13	13 20 14		Aug	11 23 39	11 13 17
	0	28 15 35	28 6 50		SEPT	10 12 23	9 23 1
	Oct	13 9 57	13 13 27		Ост	10 1 7	9 11 31
	Nov	11 22 41	12 5 57		Nov	8 13 51	8 3 2
	DEC	11 11 25	11 21 0		Dec	8 2 35	7 21 4
	_	10 0 40		1125.	Jan	6 15 20	6 16 25
1122.	JAN	10 0 10	10 10 13	D.	0	21 9 42	21 10 56
A.	FEB	8 12 54	8 21 27		FEB	5 4 4	5 11 26
14 16 43	MAR	10 1 38	10 6 59	14 10 10	MAR	6 16 48	7 4 39
	. 0	24 20 0	25 1 9		APRIL	5 5 32	5 19 2
	APRIL	8 14 22	8 15 15		May .	4 18 16	5 6 25
	MAY .	8 3 6	7 23 3		June.	3 7 0	3 15 21
	JUNE.	6 15 50	6 7 21		July.	2 19 44	2 22 48
	JULY.	6 4 34 4 17 18	5 17 10 4 5 24		0	(17 14 6	17 8 57
	Aug.	(3 6 2	4 5 24 2 20 19		Aug	[ 1 8 28	1 5 52
	SEPT	18 0 24	17 23 15			(30 21 12	30 13 36
	Oct	2 18 46	2 13 34		SEPT	29 9 56	28 22 54
	001.	(1 7 30	1 8 9		Ocr	28 22 40	28 10 24
	Nov	30 20 14			Nov	27 11 24	27 0 27
	DEC	30 8 58	$\begin{cases} 1 & 2 & 39 \\ 30 & 19 & 43 \end{cases}$		Dec	27 0 8	26 16 51
		30 000	(30 10 10		0	(10 18 80	11 2 86
1123.	JAN	28 21 43	90.10.97	1126.	JAN	(25 12 52	25 10 49
G.	FEB.	28 21 43	29 10 27 27 22 28	c.	FEB	24 1 36	24 5 11
14 22 32	MAR.	28 23 11	29 8 3	<b>14</b> 15 59	MAR	25 14 20	25 22 88
12 20 00	APRIL	27 11 55	29 8 3		APRIL	24 3 4	24 14 4
	MAY.	27 11 35	26 22 47		MAY .	23 15 48	24 2 56
	June .	25 13 23	25 5 55	]	June .	22 4 32	22 18 27
	JULY.	25 2 7	24 14 21		0	6 22 54	6 12 2
	Aug.	23 14 51	23 1 7		July.	21 17 16	21 22 16
	SEPT.	22 3 35	21 14 51		Aug	20 6 0	20 6 28
	Oct.	21 16 19	21 7 34		SEPT	18 18 44	18 14 48
	Nov.	20 5 3	20 2 26		Ocr	18 7 28	18 0 13
	DEC.	19 17 47	19 21 57		Nov	16 20 12	16 11 9
					Dec.	16 8 56	<b>15 28 4</b> 9
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Mean Vornal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	Trae New Moon. O Full Ecl.)
A.D. 1127. B. March.	Jan	d. h. m.	d. h. m.	A.D. 1130. E. March.	JAN	d. h. m. 11 12 51	d. h. m. 11 18 29
d. h. m.	FEB.	13 10 25	13 5 58	d. h. m.	FEB	10 1 35	10 4 45
14 21 47	MAR	14 28 9	14 22 38	14 15 14	MAR	11 14 19	11 14 9
	APRIL.	13 11 53	13 15 21		APRIL	10 3 3	9 23 10
	MAY .	{13 0 37	13 7 13		MAY.	9 15 47	9 8 34
	0	27 18 59	27 14 32		June.	8 4 31	7 19 17
	JUNE.	11 13 21	11 21 30		JULY.	7 17 15	7 7 54
	JULY.	11 2 5	11 9 57		Aug	6 5 59	5 22 42
	Aug	9 14 49	9 20 49		SEPT	4 18 43	4 15 13
	SEPT	8 3 33 7 16 17	8 6 43 7 16 24		Ост	4 7 27	4 8 38
	Oct.				Nov	2 20 11	3 1 51
	Nov.	6 5 1	6 2 28		DEC	2 8 55	2 17 55
	0	20 23 23	21 0 6			(81 21 39	
	DEC	5 17 45	5 13 13			(	1 8 11
1128.	JAN	4 6 30	4 0 46	1131.	JAN	30 10 23	30 20 22
A.G.	FEB	2 19 14	2 13 6	ъ.	FEB	28 23 8	1
14 8 86	MAR	8 7 58	3 2 23			(15 17 30	$\begin{cases} 1 & 6 & 36 \\ 15 & 20 & 6 \end{cases}$
	APRII.	1 20 42	1 16 39	14 21 3	MAR.,	30 11 52	30 15 13
		1 9 26	1 7 45	14 21 3	APRIL	29 0 36	28 22 58
	MAYO	3 16 3 48	16 7 39		MAY,	28 13 20	28 6 43
		(80 22 10	30 23 13	ii.	JUNE .	27 2 4	26 15 33
	June .	20 10 54	29 14 27		JULY .	1	26 2 28
	July.	28 23 38	29 4 51		Aug.	25 3 32	24 16 4
	Aug	27 12 22	27 18 7		0	(82154	8 22 49
	SEPT	26 1 6	26 6 20		SEPT	23 16 16	23 8 22
	Ocr	25 18 50	25 17 51		Oct	23 5 0	23 2 36
1	0	9 8 12	l .		Nov	21 17 44	21 21 30
	Nov	24 2 84			DEC.	21 6 28	21 15 34
	DEC	23 15 18	23 15 53			10.10.10	
1129.	JAN	22 4 2	22 2 37	1132.	JAN.	19 19 12	20 7 35
F.	FEB	20 16 46	20 13 15	C.B.	FEB.	1	18 20 54
14 9 25	MAR.	22 5 80	22 0 10		0	4 2 18	1
	APRIL	20 18 14	20 11 51	14 2 52		1	19 7 31 17 15 58
	0	( 5 12 86	5 23 34		APRIL		
	MAY.	20 6 58	20 0 47		MAY		
	JUNE.	18 19 42	18 15 5		JUNE		
	Juny .	18 8 20	18 6 29		JULY	1.70 70 00	
	Aug	16 21 10		U	Aug.	28 6 49	
	SEPT	15 9 54		11	SEPT.		1
	Oct	14 22 38	1	11	OCT.		1
	0	29 17 (	l	U	Nov.		
	Nov	18 11 22		14	DEC.		
	DEC	18 0 6	3 13 7 6	3	J.EU.	. 0 10 10	0 10 11
				II.		1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)
A.D. 1133.	_	d. h. m.	d. h. m.	A.D. 1136.		đ. h. m.
A	JAN	8 4 1	8 11 27	March.	JAN	5 19 11
March.	FEB	6 16 45	7 4 54	d. h. m.	FEB.	4 7 55
d. h. m. 14 8 40	O Mar	8 5 29	21 6 3 8 19 30	14 2 7	MAR.	4 20 39
17 0 70	APRIL	6 18 13	7 7 2		APRIL MAY.	3 9 23 2 22 7
	MAY.	6 6 57	6 15 58		HIAI .	/ 1 10 51
	June .	4 19 41	4 23 14		June O	16 5 13
	JULY.	4 8 25	4 5 53			30 23 35
	Aug	ſ 2 21 9	(2132		JULY .	30 12 19
	0	17 15 31	17 19 12		Aug	29 1 3
	SEPT	$\begin{cases} 1 & 9 & 53 \end{cases}$	31 21 45		SEPT	27 13 47
	_	30 22 37	30 8 53		Ост	27 2 31
	Oct	30 11 21	29 22 59	,	Nov	25 15 15
	Nov Dec	29 0 5 28 12 49	28 15 52 28 10 39		20	$\begin{cases} 10 & 9 & 37 \\ 27 & 2 & 72 \end{cases}$
	DEC. ,	20 12 49	28 10 59		Dec	25 3 59
1134.	JAN.	27 1 34	27 5 58		·_	20 42 44
G.	Fев	25 14 18	26 0 7	1137 c.	JAN	23 16 44
14 14 29	MAR	27 3 2	27 15 54	14 7 56	FEB MAR	22 5 28   23 18 12
	APRIL	25 15 46	26 4 43	14 1 90	APRIL	22 6 56
	MAY .	25 4 30	25 14 46		MAY.	21 19 40
	June .	23 17 14	23 22 52		June .	20 8 24
	JULY .	23 5 58	23 6 6		July.	19 21 8
	AUG	21 18 42 20 7 26	21 13 32 1 19 22 5		Aug	18 9 52
	Oct.	19 20 10	19 22 5		SEPT	16 22 36
	Nov.	18 8 54	17 21 22		Ост	16 11 20
	DEC	17 21 38	17 12 34		Nov	15 0 4
					DEC	14 12 48
	_ 0	$\begin{cases} 1 & 16 & 0 \\ 1 & 16 & 0 \end{cases}$	2 1 7		_	
1135. F.	JAN Feb	14 23 6	16 5 43	1138. B.	JAN	13 1 32
14 20 18	MAR.	14 23 6 16 11 50	14 23 50 16 17 43	14 13 45	FEB.	11 14 16 13 3 0
17 20 10	APRIL	15 0 34	15 10 7	7.2 TO #0	MAR	13 3 0
	MAY.	14 13 18	15 0 16		O	26 10 6
	June .	∫13 2 2	13 11 57		MAY .	11 4 28
	0	le 27 20 24	27 9 39		June .	9 17 12
	July .	12 14 46	12 21 37		July .	9 5 56
	Aug	11 3 30	11 6 11		Aug	7 18 40
	SEPT	9 16 14	9 14 32		SEPT	6 7 24
	Oct	9 4 58	8 23 35		Ост.	{ 5 20 8
	Nov Dec	7 17 42	7 9 51		O	20 14 30
	DEC	$\begin{cases} 7 & 6 & 26 \\ 22 & 0 & 48 \end{cases}$	6 21 39 22 11 3		Nov DEC	4 8 52
		- 22 0 30	TE II 9		ه ۱۰۱۱عدد	3 21 36
<del></del>		: i	1			Į

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 1139.		d. h. m.	d. h. m.	A.D. 1142.		d. h. m.	d. h. m.
Α.	JAN	§ 2 10 21	2 17 23	D.	JAN	28 14 15	29 0 26
3/53	JAN	(31 23 5		Manak	0	(12 8 37)	12 4 28
March. $d. h. m.$	FEB		1 4 7	March. $d. h. m.$	FEB	27 2 59	27 16 30
14 19 33	MAR	2 11 49	2 13 44	14 13 0	Mar	28 15 43	29 5 28
		1 0 33	(31 22 36		APRIL	27 4 27	27 15 33
	APRILO	15 18 55	16 6 39		MAY.	26 17 11	26 23 28
		(30 13 17	30 7 29		JUNE.	25 5 55	25 6 17
	MAY .	30 2 1	29 17 14		JULY.	24 18 39	24 13 7
	June .	28 14 45	28 4 42		0	(8131	8 15 5
	July.	28 3 29	27 18 24		Aug	$\begin{cases} 23 & 7 & 23 \end{cases}$	22 21 1
	Aug	26 16 13	26 10 15		SEPT.	21 20 7	21 6 58
	SEPT	25 4 57	25 3 32		Oct	21 8 51	20 19 37
	0	( 9 23 19	9 15 14		Nov	19 21 35	19 11 11
	Oct	$\begin{cases} 24 & 17 & 41 \end{cases}$	24 21 14		DEC	19 10 19	19 5 8
	Nov.	23 6 25	23 14 13		DEC	15 10 15	13 3 6
	DEC.	22 19 9	23 5 36	1143.	JAN	17 23 3	18 0 16
	DEC	22 10 0	20 0 00	С.	0	ſ 1 17 25	1 19 39
1140.	JAN	21 7 58	21 18 51		FEB	16 11 47	16 19 4
G.F.	FEB	19 20 37	20 5 55	<b>14</b> 18 <b>4</b> 9	MAR	18 0 31	18 12 2
14 1 22	MAR	20 9 21	20 15 7		APRIL	16 13 15	17 2 16
	0	(4 3 43	487		MAY .	16 1 59	16 13 37
	APRIL	18 22 5	18 23 2		JUNE .	14 14 43	14 22 37
	MAY .	18 10 49	<b>18 6</b> 29		JULY .	(14 3 27	14 6 15
	JUNE .	16 23 33	16 14 32		0	28 21 49	28 15 33
	JULY.	16 12 17	16 0 13		Aug	12 16 11	12 13 35
	Aug	15 1 1	14 12 27		SEPT	11 4 55	10 21 38
	SEPT	(18 18 45	13 3 31		Oct	10 17 39	10 7 14
	0	12: 8 7	28 7 31		Nov	9 6 23	8 18 54
	Oct	18 2 29	12 21 3		DEC	3 19 7	8 8 55
	Nov.	11 15 18	11 15 59		-		
	DEC	11 8 57	11 10 47	1144. B.A.	JAN	$\begin{cases} 7 & 7 & 52 \\ 22 & 2 & 14 \end{cases}$	1 '
	Ì			271227	_ 0	22 2 14	
1141.	JAN	9 16 42	10 4 2		FEB		
E.	FEB	8 5 26	8 18 41	11 0 38	MAR.	6 9 20	
14 7 11	MAR.	9 18 10	10 6 84		APRIL	4 22 4	
	APRIL	8 6 51	8 15 54		MAY .	4 10 48	
	MAY.	7 19 88	7 28 27		JUNE .	1	1
	JUNE .	6 8 22	6 6 14		July	1 )	1
	JULY.	5 21 6	5 18 17		0	17 6 38	i
	Aug.	4 9 50	8 21 44	:	Aug.	.   ]	0 1 5 44
	SEPT.	2 22 34	2 8 86	-	1200.	(30 13 4	1
	Oct.	. 2 11 18	f 1 22 29		SEPT.	. 29 2 28	3 28 23 7
	NT	(102	181 15 21	·	Oct.	. 28 15 19	
	Nov.	180 12 46	80 10 21		Nov.	. 27 3 50	
	DEC.	80 1 80	80 5 55		DEC.	26 16 4	0 26 8 30
1	1	1	1		1		1

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon, (O Full Ecl.	True New Moon, )(O Full Ecl.)
A.D., 1145.		d. h. m.	d. h. m.	A.D. 1148.		d. h. m.	d. h. m.
G.	JAN	25 5 25	24 22 29	D.C.	JAN	22 20 85	23 8 18
March. $d$ , $h$ , $m$ .	FEB	23 18 9	23 13 44	March.	FEB	21 9 19	21 18 17
14 6 26	MAR.	25 6 53	25 5 48	d. h. m. 13 23 53	MAR.	21 22 8	21 22 16
	APRIL	23 19 37	23 22 6	10 20 00	APRIL	20 10 47	20 6 48
	MAY.	23 8 21	23 13 45		MAY.	19 23 31	19 15 48
	0	(7 2 43	6 21 56		JUNE .	18 12 15	18 2 9
	June.	21 21 5	22 4 9		July .	18 0 59	17 11 30
	JULY.	21 9 49	21 16 58	İ	Aug.	16 18 43	16 5 80
1	Aug	19 22 33	20 4 18			15 2 27	14 22 21
	SEPT	18 11 17	18 14 45	i	SEPT.	1	
					Ocr.	14 15 11	14 16 12
i l	Ocr	18 0 1	18 0 55		Nov.	18 8 55	18 9 55
	Nov	16 12 45	16 11 19		DEC	12 16 89	18 2 22
	0	$\begin{cases} 1 & 7 & 7 \\ 1 & 1 & 22 \end{cases}$	1 8 2				1
	DEC	(16 1 29	15 22 10	1149.	JAN	11 5 28	11 16 49
1146.	JAN	14 14 13	14 9 31	в.	FEB	9 18 7	10 4 54
F.	FEB	13 2 57	12 21 25	14 5 42	MAR	(11 6 51	11 11 51
14 12 15	MAR	14 15 41	14 10 5		0	(26 1 13	26 8 10
	APRIL	13 4 25	12 23 44		APRIL	9 19 85	9 28 8
	MAY .	(12 17 9	12 14 21		MAY.	9 8 19	9 6 81
	0	27 11 31	27 15 8		JUNE .	7 21 8	7 14 1
.	June .	11 5 58	11 5 38		July.	7 9 47	6 22 42
	JULY.	10 18 37	10 20 58	,	Aug	5 22 81	5 9 83
	Aug	9 7 21	9 11 45		SEPT	( 4 11 15	8 28 15
	SEPT	7 20 5	8 1 36		0	19 5 87	19 6 57
	Ocr	7 8 49	7 14 26		Oct	8 28 59	8 15 45
	Nov	(5 21 33	6 2 28		Nov.	2 12 43	2 10 18
	0	20 15 55	20 7 32		21011	(2 1 27	2 5 80
	DEC	5 10 17	5 13 54		DEC	81 14 11	81 28 45
			9 19 94			(01 14 11	O1 20 40
1147.	Jan	3 23 2	4 0 50	4450	_		00.45.50
E.	FEB.	2 11 46	2 11 19	1150.	JAN	80 2 55	80 15 50
14 18 4	MAR.	4 0 30	3 21 31	Α.	FEB	28 15 40	(1 5 8
	APRIL	2 13 14	2 7 51		_ 0	(15 10 2)	15 5 15
		2 1 58	1 18 59	11 11 81	Mar	(80 4 24	180 15 27
	$M_{\Lambda Y} \circ$	<b>316 20 20</b>	17 6 55		APRIL	28 17 8	28 28 40
		(31 14 42	31 7 28		MAY .	28 5 52	28 6 87
	June .	30 3 26	29 21 35		June.	26 18 86	26 18 21
	July.	29 16 10	29 13 6		July.	26 7 20	25 20 59
	Aug	28 4 54	28 5 20		Aug	21 20 4	24 6 86
	SEPT	26 17 38	26 21 29	]	0	5 8 14 26	8 20 1
	Ocr	26 6 22	26 12 55		SEPT	28 8 48	22 19 0
	0	(10 0 44	9 12 34		Ocr	22 21 82	22 10 80
	Nov	{24 19 6	25 3 9		Nov	21 10 16	21 4 89
	DEC	24 7 50	24 15 57		DEC	20 23 0	21 0 9
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Mosn Vernal Equinas	Month.	Menn Now Moon, Full Ecl.)	True New Moon. Full Ecl.)	Mean Vernal Equinox,	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A D. 1151.		d, h, m,	d. h. m.	A.D. 1154.		d. h. m.	d. h. m.
44.	JAN.	19 11 15	19 19 21	е.	0	f 1 8 82	1 19 26
1	Fin	18 0 20	18 12 41		JAN	16 2 54	15 19 88
March.	4.0	4 14 51 <sup>1</sup>	4 14 11	March.	FEB	14 15 88	14 9 56
11 17 19	MAR.	19 18 18	20 8 13	14 10 46	MAR	16 4 22	16 1 22
	Arso.	19 1 67	18 11 36		APRIL	14 17 6	14 17 22
*	May	17 14 41	17 23 26		MAY.	14 5 50	14 9 19
	Jine .	16 8 25	16 6 40		June .	(12 18 81	18 0 25
4	July.	15 16 9	15 13 23		0	27 12 56	27 5 15
		111 4 58	18 20 48		July.	12 7 18	12 14 10
all residents		128 28 15	29 2 17		Aug	10 20 2	11 2 24
	Sert.	12 17 87	12 5 40		SEPT.	9 8 46	9 18 80
	Oct.	12 6 21	11 17 1		Oct	8 21 80	9 0 1
	Nov.	10 19 5			Nov.	7 10 14	7 10 28
			10 7 11		<b></b> .	6 22 58	6 21 10
	Date.	10 7 49	10 0 0		1	13	
	•				0	121 17 20	21 21 44
1152.	JAN.	H 20 BB	H 1H H7	1155.	JAN	5 11 48	5 8 12
\$1.8.	Fra.	7 9 17	7 13 39	н.	FEB	4 0 27	8 19 87
1a 2a B	Man.	7 22 1	H 7 H2	11 10 85	MAR	5 13 11	5 7 87
	Aran	6 10 45	6 23 7		APRIL	4 1 55	8 20 27
	May .	5 ga go	6 11 51		MAY .	8 14 89	8 10 20
1	Junn .	4 12 18	4 21 58		JUNE .	1 2 8 28	2 1 11
F 	Jeny .	4 0 57	4 6 11		0	16 21 45	16 22 10
į.	Ava.	2 18 41	7 2 13 42			(1167	1 16 85
	4	11 22	्रिया था थर		July.	81 4 51	81 7 51
*	Mart.	100 15 1	30 6 22		Aug	29 17 85	29 22 26
#	Our.	BO -8 58	20 17 4		SEPT.	28 6 19	28 12 5
	Nov.	28 16 87	28 5 55		Ocr.	27 19 8	28 0 47
4	Dine.	28 6 21	27 20 55		Nov.	26 7 47	26 12 40
					DEG.	25 20 81	25 28 54
n	- date	(11 28 4)	1 12 9 49	1			
	1 ()	Con the f	.,	1150.	JAN.	24 9 15	24 10 81
1163.	Jax.	28 6 40		. 11	Frm.	22 22 0	
	Fau.	1	1 -	10 22 23	MAR.	1	1
11 4 57	Man.			14	APRIL	21 28 28	
P.	Arail	25 8 18	, -		n	6 17 50	1
	May .	24 21 2			MAY		
ř	Jusz.	28 9 40		11	June	- 1	
i	\$.#	H 4			Juny		
ř	Just .	22 22 8		11	Aug.	-	
	Ava	21 11 14		11	SEPT.	. 16 15 8	
	Hert.	10 23 6	4		Ocr.	, 16 8 5	1
•	Oct	19 12 42		11	0	180 22 1	
1	Nuv	1H 1 24	1		Nov.	. 14 16 8	
No.	Duc	17 14 10	17 6 20	<b>1</b>	DEC.	. 14 5 2	0 14 14 7
798	1	,		11	1	1	1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal ) Equinox.	Month.		True New Moon.
A.D. 1157.		d. h. m.	d. h. m.	A.D. 1160.		d. h. m	. d. h. m.
F.	JAN	12 18 4	13 2 12	С.В.	JAN	10 9 14	10 18 58
March. $d. h. m.$	FEB	11 6 48	11 12 44		FEB	( 8 21 58	
14 4 12	MAR	12 19 32	12 21 58	March. $d.$ $h.$ $m.$	0	28 16 20	
	APRIL	(11 8 16	11 6 25	18 21 89	MAR	9 10 42	i i
	0	K26 2 38	26 13 35		APRIL	7 23 26	
	MAY .	10 21 0	10 14 51	II	MAY .	7 12 10	7 22 58
	JUNE.	9 9 44	9 0 14	11	JUNE .	6 0 54	6 6 52
	JULY.	8 22 28	8 11 32		July .	5 18 38	5 18 44
1	Aug	7 11 12	7 1 12	ii	Aug.	(4 2 22	
	SEPT.	5 23 56	5 17 15		0	18 20 44	18 21 56
	Ост.	6 12 40	5 10 55		SEPT.	1	1
	0	$\begin{cases} 20 & 7 & 2 \end{cases}$	19 23 47		DANT A	1 .	2 4 58
	Nov	4 1 24	4 5 6		Ocr	17	1 15 4
	DEC	3 14 8	3 22 29		NT	(81 16 81	81 8 52
	2010.	0 14 0	3 24 25		Nov.	80 5 18	29 19 25
	_	(2 2 52	2 14 8	1	DEC	29 18 2	29 18 11
1158.	JAN	31 15 36		1161.	JAN	28 6 47	23 8 8
E.	FEB	(01 10 00	1 8 28	Λ.	0	(12 1 9	12 4 19
		(2 4 21	2 14 16		FEB	26 19 81	27 2 82
14 10 1	MAR.,	31 17 5	31 23 9	14 8 28	MAR	28 8 15	28 19 15
	0	(15 11 27	15 14 57		APRIL	26 20 59	27 9 28
	APRIL	30 5 49	30 6 48		MAY .	26 9 48	26 20 45
	MAY .	29 18 33	29 13 54		June .	24 22 27	25 5 53
	June .	28 7 17	27 21 44		JULY.	24 11 11	24 18 46
	JULY.	27 20 1	27 7 28		0	78 5 88	7 22 17
	Aug.	26 8 45	25 19 89		Aug	22 28 55	22 21 26
	SEPT	24 21 29	24 10 54		SEPT.	21 12 89	21 5 51
	0	(9 15 51	9 15 57		Ocr.	21 1 28	20 15 44
	Ocr	24 10 13	24 4 41		Nov.	19 14 7	19 8 82
	Nov.	22 22 57	22 23 58		DEC	19 2 51	18 17 25
1	DEC	22 11 41	22 18 55	1162.			
			22 10 00	G.	JAN	17 15 86	17 9 18
1159.	JAN	21 0 26	21 12 14		_ 0	[ 1 9 58	1 19 59
D.	FEB	19 13 10	20 2 52	14 9 17	Fкв	116 4 20	16 2 17
14 15 50	MAR	21 1 54	21 14 32	T# A T/	MAR.	17 17 4	17 19 45
	APRIL	19 14 38	19 28 38		APRIL	16 5 48	16 12 80
	MAY .	19 3 22	19 7 0		MAY .	15 18 82	16 8 89
	JUNE .	17 16 6	17 18 89		JUNE.	14 7 18	14 16 41
	JULY.	17 4 50	16 20 48		JULY .	f 18 20 0	14 8 42
	Aug	15 17 34	15 5 16		0	28 14 22	28 1 57
	SEPT	14 6 18	13 16 16		Ava	12 8 44	12 18 17
	Oct.	13 19 2	18 6 19	-	SEPT	10 21 28	10 22 19
	Nov.	12 7 46	11 23 17		Oct	10 10 12	10 7 85
	DEC.	11 20 30	11 18 20		Nov.	8 22 56	8 17 40
	•		TT 10 20		DEC.	8 11 40	8 4 50
				!	1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 1163.	Jan	d. h. m.	d. h. m.	A.D. 1166. B.	Jan. ,	d. h. m. 3 15 34	d. h. m. 4 0 45
March.	FEB.	5 13 8	5 6 41	March.	FEB.	2 4 18	1
d. h. m. 14 15 5	MAR.	7 1 52	6 21 20	d. h. m.			2 12 0
1220	APRIL	5 14 36	5 12 51	14 8 32	MAR.	3 17 2	3 21 40
		5 3 20	11		APRIL	2 5 46	2 6 14
	MAY.		5 4 43		MAY .	$\begin{cases} 1 & 18 & 30 \end{cases}$	1 14 21
	JUNE.	3 16 4	3 20 15			(31 7 14	30 22 57
	0	(18 10 26	18 5 18		June.	29 19 58	29 9 5
i	July.	3 4 48	3 10 49		$\mathtt{J}_{\mathtt{ULY}}$ .	29 8 42	28 21 29
	Aug	f 1 17 32	1 23 59		$\mathbf{A}$ UG	27 21 26	27 12 27
	Aug.	(31 6 16	81 11 52		SEPT	26 10 10	26 5 35
	SEPT	29 19 0	29 22 53		Oct	25 22 54	25 23 54
	Ocr	29 7 44	29 9 33		Nov	24 11 38	24 18 3
	Nov	27 20 28	27 20 15		DEC	24 0 22	24 10 47
ļ	0	(12 14 50	12 16 0				
	DEC	27 9 12	27 7 6	1167.	JAN	22 13 6	23 1 18
		(		Α.	FEB	21 1 50	21 13 17
1164.	JAN.	25 21 56	25 18 11	14 14 21	MAR	22 14 35	22 22 58
E.D.	FEB	24 10 41	24 5 38		0	(6 8 57	6 10 8
13 20 51	MAR.	24 23 25	24 17 42		APRIL	21 3 19	21 6 56
	APRIL	23 12 9	23 6 45		MAY.	20 16 3	20 14 2
	MAY.	28 0 53	22 20 58		June.	19 4 47	18 21 18
	0	6 19 15	6 22 34		JULY.	18 17 31	18 5 53
	JUNE .	21 13 37	21 12 5		Aug.	17 6 15	16 16 47
	JULY.	21 2 21	21 3 34		SEPT.	(15 18 59	15 6 36
	Aug.	19 15 5	19 18 46		O O	30 13 21	30 15 15
	SEPT.	18 3 49	18 9 12		_	15 7 43	14 23 20
	Oct	17 16 33	17 22 39	H	Oct	1	13 18 7
	Nov.	(16 5 17	16 11 10	11	Nov.	13 20 27	
	0	80 28 89	30 15 38		DEC	13 9 11	13 13 33
1	DEC.	15 18 1	15 22 50	1168.	JAN.	11 21 55	12 7 56
1	DEC			G.F.	FEB.	10 10 39	10 23 57
1165.	JAN		14 9 43	18 20 10		(10 23 23	11 13 1
C.	FEB	12 19 29	12 19 54	15 20 10	MAR.	25 17 45	25 12 40
14 2 48	MAR.	14 8 14	14 5 38			9 12 7	9 23 13
	APRIL	12 20 58	12 15 26		APRIL	1	9 7 15
	MAY .	(12 9 42	12 2 4		MAY .	9 0 51	7 14 4
1	0	27 4 4	27 14 10		JUNE .	1	
	JUNE .	10 22 26	10 14 11		JULY.	7 2 19	
	JULY .	10 11 10	10 4 9		Aug.		1
	Aug.	0.00 74	8 19 47	1	SEPT.	J	
	SEPT.	1	7 12 23		0	18 22 9	1
	Ocr.	7 1 22	1		Ocr.	3 16 31	3 2 49
	Nov.	C K 74 6			Nov.	. 2 5 15	1 18 27
	0	20 8 28	1		DEC.	$\int 1 17 59$	1
	DEC.	1	1			. 31 6 48	31 8 6
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1169.		d. h. m.	d. h. m.	A.D. 1172.		d. h. m.	d. h. m.
E.	JAN	29 19 27	30 3 12	B.A.	0	(12 16 16	13 3 45
	FEB	28 8 12	28 20 25		JAN	27 10 38	27 8 59
March.	0	(15 2 34	14 22 11	March.	FEB	25 23 22	25 17 48
d. h. m.     14   1 58	Mar	29 20 56	30 10 43	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MAR	26 12 6	26 8 87
	APRIL	28 9 40	28 22 0	20 20 =	APRIL	25 0 50	25 0 9
	MAY.	27 22 24	28 6 57		MAY .	24 18 81	24 15 49
	JUNE.	26 11 8	26 14 5		June .	23 2 18	28 6 57
	JULY.	25 23 52	25 20 58		0	( 7 20 40	7 12 89
1	Aug	24 12 36	24 4 32		JULY.	[22 15 2	22 20 59
	0	(8658	8 9 28		Aug	21 3 46	21 9 45
	SEPT	23 1 20	22 13 45		SEPT	19 16 80	19 21 26
	Ост	22 14 4	22 1 17		Ocr	19 5 14	19 8 30
1	Nov	21 2 48	20 15 29		Nov	17 17 58	17 19 18
	DEC	20 15 32	20 8 11		DEC	17 6 42	17 6 8
					0	(114	1 5 44
1170. D.	JAN	19 4 17	19 2 31	1173.	JAN	<b>15 19 26</b>	15 17 11
1	FEB	17 17 1	17 21 12	G.	FEB	14 8 11	14 4 8
14 7 47	MAR.	19 5 45	19 14 48	14 1 14	MAR	15 20 55	15 15 28
	APRIL	17 18 29	18 6 11		APRIL	14 9 89	14 8 42
	MAY.	17 7 13	17 18 54		May .	18 22 28	18 17 6
	JUNE.	15 19 57	16 5 7		June.	12 11 7	12 7 40
	JULY.	15 8 41	15 13 37		0	<b>27 5 2</b> 9	27 5 88
	Aug	13 21 25	13 21 26		July .	11 28 51	11 28 4
	SEPT	12 10 9 11 22 53	12 5 33		Aug	10 12 85	10 14 89
] }	Nov	10 11 37	11 14 48		SEPT	9 1 19	9 5 47
	DEC.	10 11 37	10 1 42		Ост	8 14 8	8 20 2
1 1	DEC.	10 0 21	9 14 32		Nov	7 2 47	7 9 17
1171.	т	(010 =			DEC	6 15 81	6 21 82
С.	Jan	$\begin{cases} 8 & 13 & 5 \\ 23 & 7 & 27 \end{cases}$	8 5 17	1174.	JAN	5 4 15	5 8 50
	FEB	(23 7 27 7 <b>1</b> 49	23 18 29	F.	FEB	8 16 59	8 19 15
14 13 36	MAR.	8 14 33	6 21 34	14 7 3	Mar	5 5 48	5 4 56
14 19 90	APRIL	7 3 17	8 14 41 7 7 42		APRIL	3 18 27	8 14 21
1	MAY.	6 16 1	6 23 39		MAY.	3 7 11	8 0 12
	JUNE .	5 4 45	5 13 48	ļ	0	(18 1 88	18 18 8
	JULY.	(4 17 29	5 1 54		JUNE.	1 19 55	1 11 20
	0	19 11 51	18 23 40		July .	f 1 8 89	1 0 14
	Aug	3 6 13	3 12 18	1	3011.	(30 21 28	30 15 6
	SEPT	1 18 57	1 21 45		Aug	29 10 7	29 7 28
	O	(1741	1 7 3		SEPT	27 22 51	28 0 80
	Oct	(30 20 25	30 16 51	.	Our	27 11 85	27 17 15
	Nov	29 9 9	29 3 31			<b>∫11</b> 5 57	10 18 88
	DEC	28 21 53	28 15 14		Nov	(26 0 19	26 8 52
					Dec	25 13 8	25 22 50

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1175.		d. h. m.	d. h. m.	A.D. 1178.		d. h. m.	d. h. m.
No nob	JAN	24 1 48	24 10 57	Α.	JAN	20 16 58	20 21 44
March. d. h. m.	FEB	22 14 32	22 21 15		FEB	19 5 42	19 15 57
14 12 51	MAR	24 3 16	24 6 7	March. $d. h. m.$	0	(604	5 21 2
	APRIL	22 16 0	22 14 8	14 6 18	MAR	20 18 26	21 7 41
	0	7 10 22	7 20 27		APRIL	19 7 10	19 20 24
	MAY .	122 4 44	21 22 10		MAY .	18 19 54	19 6 18
	June .	20 17 28	20 7 17		JUNE.	17 8 38	17 14 14
	July .	20 6 12	19 18 25		JULY.	16 21 22	16 21 16
	Aug	18 <b>1</b> 8 56	18 8 9		ΑυG	(15 10 6	15 4 30
	SEPT	17 7 40	17 0 24		0	130 4 28	30 4 55
	Ocr	∫16 20 24	16 18 27		SEPT	13 22 50	13 12 55
	0	\31 14 46	31 8 27		Oct	13 11 34	12 23 20
1	Nov	15 9 8	15 13 4		Nov	12 0 18	11 12 15
	Dec	14 21 52	15 6 49		DEC	11 13 2	11 3 43
1176.	JAN.	13 10 37	13 22 36	1179.	JAN	10 1 46	9 21 14
10,0,	FEB.	11 23 21	12 11 49	G.	FEB	8 14 30	8 15 43
13 18 40	MAR.	12 12 5	12 22 28		0	123 8 52	23 12 48
	APRIL	(11 0 49	11 7 3	14 12 7	MAR	10 3 14	10 9 50
	0	$\begin{cases} 25 & 19 & 11 \\ 25 & 19 & 11 \end{cases}$	25 21 41		APRIL	8 15 58	9 2 19
	MAY .	10 13 33	10 14 18		MAY .	8 4 42	8 16 21
	June .	9 2 17	8 21 17		June .	6 17 26	7 3 47
	July.	8 15 1	8 5 2		JULY.	6 6 10	6 13 9
	Aug	7 8 45	6 14 39		Aug	<b>∫</b> 4 18 54	4 21 21
	SEPT.	5 16 29	5 3 1		0	19 13 16	19 5 5
	Oct	( 5 5 13	4 18 25		SEPT.	3 7 38	3 5 23
	0	19 23 35	20 0 29		Oct	2 20 22	2 14 11
1	Nov	8 17 57	3 12 27		Nov	$\begin{cases} 1 & 9 & 6 \\ 0.0 & 0.1 & 5.0 \end{cases}$	1 0 20
	DEC	8 6 41	8 7 51		DEC	30 21 50 30 10 34	30 12 13 30 1 55
		( 1 19 25	2 2 59	1180.		28 23 18	28 17 17
1177.	JAN	81 8 9	81 20 19	F.E.	JAN.	(12 17 40	13 4 28
в.	FEB				FEB	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	27 9 49
		( 1 20 58	2 10 50	13 17 56	MAR.	28 0 47	28 2 48
14 0 29	MAR	31 9 37	81 22 20	10 1. 00	APRIL	26 13 31	26 19 15
	APRIL	29 22 21	30 <b>7 1</b> 4		MAY .	26 2 15	26 10 18
	MAY.	29 11 5	29 14 28		June .	24 14 59	24 23 29
	June .	27 23 49	27 21 5		JULY.	24 3 43	24 10 52
	July.	27 12 33	27 4 14		0	§ 7 22 5	7 9 3
1	Aug.	26 1 17	25 12 54		Aug	122 16 27	1
	SEPT.	24 14 1	24 0 5		SEPT	21 5 11	21 6 28
	Oct	24 2 45	23 14 16		Oct	20 17 55	20 16 9
	Nov.	1	22 7 18		Nov.		1
	DEC.	22 4 18	22 2 18		DEC	18 19 28	18 13 42
	1	1	1		1		1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1181. D. March. d. h. m. 13 23 44	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC O	d. h. m.  17 8 8 15 20 52 17 9 36 15 22 20 15 11 4 13 23 48 13 12 32 12 1 16 10 14 0 10 2 44 8 15 28 { 8 4 12 { 22 22 34 6 16 56 5 5 40	d. h. m. 17 1 47 15 14 49 17 4 50 15 19 48 15 11 17 14 2 44 13 17 28 12 7 6 10 19 34 10 7 9 8 18 16 8 5 13 22 23 58 6 16 3 5 2 48	A.D. 1184. A.G. March. d. h. m. 13 17 11	JAN FEB MAR APRIL MAY . JULY . AUG SEPT OCT NOV DEC JAN FEB	d. h. m.  14 23 18 13 12 2 14 0 46 12 13 80 12 2 14 10 14 58 10 3 42 8 16 26 7 5 10 6 17 54 5 6 38 4 19 22  3 8 6 1 20 50 3 9 84	d. h. m. 15 9 80 18 20 85 14 5 57 12 14 5 11 21 49 10 6 8 9 16 4 8 4 26 6 19 31 6 18 0 5 7 41 5 2 12 8 19 11 2 9 42 8 21 81
14 5 33	MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV O DEC	6 18 24 5 7 8 4 19 52 { 3 8 36 { 18 2 58 2 21 20 { 1 10 4 { 30 22 48 29 11 32 29 0 16 27 13 0 { 12 7 22 { 27 1 44	6 18 42 5 1 10 4 18 41 3 3 30 18 5 59 2 18 31 1 10 12 31 1 51 29 16 54 29 6 57 27 19 54 11 28 46 27 7 45	10 25 0	APRIL O MAY . JUNE . JULY . AUG SEPT O OCT Nov Dec	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	2 6 55 16 16 59 1 14 85 80 21 28 20 4 88 28 18 12 27 0 9 25 14 8 10 28 88 25 7 2 24 2 1 28 21 82
1183. B. 14 11 22	JAN FEB	25 14 29 24 3 13 25 15 57 24 4 41 28 17 25 7 11 47 22 6 9 21 18 53 20 7 37 18 20 21 18 9 5 16 21 49 1 16 11 16 10 38	25 18 83 24 4 28 25 13 38 23 22 55 23 9 4 7 21 21 21 20 53 21 10 46 20 2 34 18 19 35 18 12 51 17 5 22 1 5 35 16 20 23	1186. E. 14 449	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O Oct Nov Dec	22 5 89 20 18 28 22 7 7 6 1 29 20 19 51 20 8 85 18 21 19 18 10 3 16 22 47 (15 11 31 80 5 58 15 0 15 13 12 59 13 1 48	22 15 58 21 7 56 22 20 50 5 19 59 21 6 51 20 18 45 18 21 81 18 4 17 16 12 9 14 28 5 80 11 21 14 10 48 18 2 81 12 20 40

Mean Vernal Equinox.			11	1	1	1	
	Month.	Mean New Moon. O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. O Full Ecl.)
A.D. 1187. b. March. d. h. m. 14 10 87	JAN Feb Mar	d. h. m. 11 14 28 10 8 12 (11 15 56) 26 10 18	d. h. m. 11 16 1 10 10 56 12 3 55 26 6 3	A.D. 1190. G. March. d. h. m. 14 4 4	Jan  O Feb MAR	$ \begin{array}{c} d. \ h. \ m. \\ 8 \ 5 \ 37 \\ 22 \ 23 \ 59 \\ 6 \ 18 \ 21 \\ 8 \ 7 \ 6 \end{array} $	d. h. m. 8 0 0 23 11 56 6 12 20 8 1 35
	APRIL MAY. JUNE. JULY.	10 4 40 9 17 24 8 6 8 7 18 52	10 18 5 10 5 17 8 14 6 7 21 81		APRIL MAY. JUNE. JULY.	6 19 50 6 8 34 4 21 18 6 4 10 2	6 15 48 6 6 50 4 22 17 4 13 30
	Aug Sept O Oct Nov	6 7 86 (4 20 20 19 14 42 4 9 4 2 21 48	6 4 38 4 12 80 19 16 47 8 21 59 2 9 41		O AUG SEPT OCT	$ \begin{array}{c cccc}  & 19 & 4 & 24 \\  & 2 & 22 & 46 \\  & 1 & 11 & 30 \\  & 1 & 0 & 14 \\  & 30 & 12 & 58 \\ \end{array} $	18 20 6 3 3 53 1 17 12 1 5 29 30 17 3
1188.	DEC	\$2 10 82 81 28 16 80 12 0	1 28 54 81 16 28 80 10 20	1191.	Nov Dec O Jan	$ \begin{array}{c ccccc} 29 & 1 & 42 \\ 28 & 14 & 26 \\ \end{array} $ $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	29 4 13 28 15 7 12 13 89 27 1 48
e.u. 13 16 26	FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEG	29 0 44 29 18 28 28 2 12 27 14 56 26 8 40 25 16 24 21 5 8 22 17 52 22 6 86 20 19 20 20 8 4	29 4 87 29 21 54 28 18 8 28 1 51 26 12 14 25 21 8 24 5 16 22 18 47 21 28 21 20 10 26 19 28 11	r. 14 9 58	FEB  MAR  APRIL  MAY .  JUNE .  O  JULY .  AUG  SEPT  OCT  NOV  DEC	25 15 54 27 4 88 25 17 22 25 6 6 23 18 50 8 18 12 28 7 84 21 20 18 20 9 2 19 21 46 18 10 30 17 28 14	25 12 21 26 28 11 25 10 51 24 23 47 23 14 7 8 13 6 23 5 35 21 21 92 20 18 15 20 4 7 18 17 51 18 6 24
1189. A. 18 22 15	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC	18 20 49 { 2 15 11 17 9 83 18 22 17 17 11 1 16 28 45 15 12 29 { 15 1 18 20 19 85 18 18 57 12 2 41 11 15 25 10 4 9 9 16 58	29 6 50 18 19 44 12 5 41 11 15 80 10 1 89	1192. E.D. 13 15 42	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG . SEPT. OCT . NOV. O DEC.	16 11 59 15 0 48 15 13 27 14 2 11 {18 14 55 28 9 17 12 8 89 11 16 28 10 5 7 8 17 51 8 6 85 {6 19 19 21 18 41	16 17 43 15 8 52 15 18 7 18 22 2 18 7 26 28 20 10 11 18 10 11 6 56 9 21 51 8 14 31 8 8 2 7 1 18 21 3 11

,							
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1193.		d. h. m.	d. h. m.	A.D. 1196.		d. h. m.	d. h. m.
c.	JAN	4 20 48	5 7 32	G.F.	JAN	2 11 57	2 10 16
March.	FEB	3 9 32	3 19 35		FEB	1 0 41	1 5 28
d. h. m. 13 21 30	MAR.	4 22 16	5 5 36	March. $d$ . $h$ . $m$ .		c 1 18 25	1 23 29
15 21 00	APRIL	3 11 0	3 14 6	d. h. m. 13 14 57	MAR. O	16 7 47	16 5 7
	MAY.	(2 23 44	2 21 44	10 11 0.	1,111.	(31 2 9	31 15 <b>1</b>
	0	17 18 6	18 3 10		APRIL	29 14 53	30 3 38
	JUNE.	1 12 28	(1 5 28		MAY.	29 8 87	29 13 82
i i	JUNE .	(1 1 12	30 14 23			27 16 21	27 21 86
1	JULY.	30 13 56	,		JUNE.	27 5 5	27 4 50
	A				JULY.	25 17 49	
	Aug	29 2 40	28 15 14		Aug		25 12 21
1	SEPT.	27 15 24	27 7 44		0	9 12 11	9 12 1
	Oct	27 4 8	27 2 7		SEPT	24 6 88	28 21 6
	, O	10 22 30	10 17 15		Oct	23 19 17	23 7 44
	Nov.	25 16 52	25 21 4		Nov	22 8 1	21 20 48
	Dec	25 5 36	25 15 5		DEC	21 20 45	21 12 8
	•			1197.	JAN	20 9 30	20 5 14
1194.	Jan	23 18 20	24 6 56	E.	FEB	18 22 14	18 23 18
в.	FEB	22 7 4	22 20 4		0	(5 16 86	5 21 12
14 3 19	MAR	23 19 48	24 6 29	13 20 46	MAR	20 10 58	20 17 1
	APRIL	22 8 32	22 14 36		APRIL	18 23 42	10 9 16
1	0	7 2 54	7 4 17		MAY.	18 12 26	18 23 14
	MAY .	21 21 16	21 21 50		June.	17 1 10	17 10 48
	June.	20 10 0	20 4 39		JULY.	16 18 54	16 20 27
	July.	19 22 44	19 12 22		Aug	(15 2 88	15 <b>5 1</b>
1	Aug	18 11 28	17 22 3		0	29 21 0	29 12 5
1	SEPT	17 0 12	16 10 32		SEPT.	18 15 22	18 18 29
	Ост	(16 12 56	16 2 6		Oct.	13 4 6	12 22 40
	0	31 7 18	31 9 7		Nov.	11 16 50	11 9 4
	Nov	15 1 40	14 20 17		Dec.	11 5 84	10 20 58
	Dec	14 14 24	14 15 47		_		
				1198.	JAN	9 18 19	9 10 27
1195.	JAN	13 3 9	13 11 0	J.	FEB	8 7 8	8 1 20
1195.	FEB	11 15 53			0	28 1 25	23 12 51
14 9 8	MAR.	13 4 37	12 4 16 13 18 40	14 2 35	MAR	9 19 47	9 17 18
1	APRIL	11 17 21	1		APRIL	8 8 81	8 9 45
1	MAY .	11 17 21			MAY .	7 21 15	8 1 58
1	June .	9 18 49	11 14 45		JUNE.	6 9 59	6 16 54
	JULY.		9 21 56		July.	5 22 48	6 6 18
	Aug.		9 4 33		Aug	j 4 11 27	4 18 6
	SEPT.	7 20 17	7 11 51		0	119 5 49	18 16 18
	Oct.	6 9 1	5 20 43		Sept	3 0 11	3 4 41
	1	5 21 45	5 8 5		Ост	2 12 55	2 14 44
	Nov	4 10 29	3 22 23		No	ſ 1 1 89	1 0 52
	Dec	3 23 13	3 15 24		Nov	30 14 28	80 11 27
	<u> </u>	1	l		DEC	80 8 7	29 22 85

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 1199. c. March. d. h. m. 11 8 23	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	d. h. m.  28 15 51  27 4 85  28 17 19  27 6 8  26 18 47  25 7 81  24 20 15  28 8 59  21 21 43  21 10 27  19 23 11  19 11 55	d. h. m.  28 10 22 26 22 50 28 12 14 27 2 38 26 17 47 25 9 11 25 0 10 28 14 17 22 3 21 21 15 32 20 3 6 19 14 11	A.D. 1202. F. March. d. h. m. 14 1 50	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	d. h. m.  25 7 1  23 19 45  25 8 29  23 21 13  23 9 57  21 22 41  21 11 25  20 0 9  18 12 58  18 1 37  16 14 21  16 3 5	d. h. m.  25 18 6 24 5 0 25 14 2 23 21 49 23 5 14 21 18 19 20 23 7 19 11 32 18 2 50 17 20 32 16 15 33 16 10 20
1200. B.A. 18 14 12	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG . SEPT . OCT . NOV .	\$ 6 18 {18 0 40 16 18 24 17 2 8 15 14 52 15 8 36 {18 16 20 {28 10 42 18 5 4 11 17 48 10 6 82 9 19 16 8 8 0 { 7 20 41 { 22 15 6	3 7 54 18 0 55 16 11 18 16 21 40 15 8 34 14 20 34 13 10 4 28 13 26 13 1 1 11 16 56 10 9 5 10 0 43 8 15 20 8 4 40 22 7 57	1203. E. 14 7 89	JAN FEB MAR APRIL O MAY JUNE JULY . AUG SEPT OCT O NOV DEC	14 15 50 13 4 84 14 17 18 (13 6 2 28 0 24 12 18 46 11 7 30 10 20 14 9 8 58 7 21 42 { 7 10 26 22 4 48 5 23 10 5 11 54	15
1201. G. 18 20 1	JAN	6 9 29 4 22 18 6 10 57 4 28 41 4 12 25 8 1 9 17 19 81 2 18 58 { 1 2 37 80 15 21 29 4 5 28 16 49 27 5 88 { 11 28 55	6 16 38 5 3 16 6 12 48 4 21 30 4 6 19 2 16 6 18 4 81 (2 8 8) 81 17 29 80 9 80 29 2 56 28 20 41 27 13 41 11 14 13		JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG . SEPT . O OCT . NOV. DEC.	28 17 47 27 6 31 25 19 15 (10 13 3 (25 7 50 23 20 48	16 8 12 1 14 22 30 22 11 29 4 59 28 11 58 26 19 56 25 6 5 7 10 19 41 9 24 18 57 8 23 10 41

Moon	1	Mean New	True New	Mean		Mean New	True New
Mean Vernal Equinox.	Month.	Moon.	Moon. (O Full Ecl.)	Vernal	Month.	(O Full Ecl.	) (O Full Ecl.)
A.D.		d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
1205. B.	_		1	1208. F.E.	T	19 13 21	19 8 45
March.	JAN	21 22 11	21 23 50	1.2.	JAN.	(3 7 43	3 20 31
d. h. m. 13 19 16	FEB	20 10 55 21 23 39	20 18 29 22 11 15	March.	FEB.	18 2 5	17 20 36
10 10 10		(5 18 1	5 13 49	d. h. m. 13 12 43	MAR.	18 14 49	18 9 14
	APRIL	20 12 23	21 1 27	10 12 10	APRIL	17 3 33	16 22 50
	MAY.	20 1 7	20 12 29		MAY.	16 16 17	16 18 26
	June.	18 13 51	18 21 23		JUNE .	15 5 1	15 4 42
	JULY.	18 2 35	18 4 59		JULY .	(14 17 45	14 20 8
	Aug	16 15 19	16 12 23		0	(29 12 7	29 8 87
	SEPT	(15 4 3	14 20 35		Aug	13 6 29	18 10 51
	0	29 22 25	30 0 11		SEPT	11, 19, 18	12 0 44
	Oct	14 16 47	14 6 22		Ocr	11 7 57	11 13 38
	Nov	13 5 31	12 18 13		Nov	9 20 41	10 1 48
	DEC	12 18 15	12 8 21		DEC	9 9 25	9 18 9
1206.	JAN	11 7 0	11 0 32	1209.	JAN	5 7 22 9	8 0 4
Α.	FEB.	9.19 44	9 18 4	D.	0	22 16 31	22 21 80
14 1 5	MAR.	11 8 28	11 11 55		FEB	6 10 53	6 10 26
	APRIL	9 21 12	10 4 50	13 18 32	MAR	7 23 38	7 20 88
	MAY .	9 9 56	9 19 57		APRIL	6 12 22	6 6 50
	JUNE .	7 22 40	8 8 45		MAY.	6 1 6	5 17 56
	JULY.	7 11 24	7 19 23		June.	4 13 50	4 6 28
	Ατισ	608	6 4 34		July.	4 2 34	8 20 89
	SEPT	4 12 52	4 13 12		0	(18 20 50	18 20 88
	Ост	4 1 36	3 22 9		Aug	2 15 18	2 12 14
	Nov.	2 14 20	284		SEPT	{ 1 4 2   80 16 46	1 4 88
	DEC	$\begin{cases} 2 & 3 & 4 \end{cases}$	1 19 15		Ост	30 5 30	30 20 48 30 12 17
		(31 15 48	31 7 50		Nov.	28 18 14	80 12 17 29 2 80
					DEC	28 6 58	28 15 15
1207.	Jan	30 4 32	29 21 49				-0 20 20
G.	0	(13 22 54	14 11 22	1210.	JAN	26. 19 42	27 2 28
14 6 54	FEB.	(28 17 16	28 13 1	с.	FEB	25 8 26	25 12 19
14 0 94	MAR	30 6 0	30 5 2	14 0 21	MAR	26 21 10	26 21 10
	MAY.	28 18 44 28 7 28	28 21 13		APRIL	25 9 54	25 5 87
	JUNE.	26 20 12	28 <b>1</b> 2 <b>4</b> 9   27 <b>3</b> 8		MAY .	24 22 38	24 14 85
	JULY.	26 8 56	27 <b>8</b> 8 26 <b>15 54</b>		June.	23 11 22	28 1 2
	0	(10 3 18			JULY.	28 0 6	22 13 40
	Aug.	24 21 40	9 14 6 25 3 16		Aug	21 12 50	21 4 41
	SEPT.	23 10 24	23 13 46		SEPT	20 1 34	19 21 41
	Ост	22 23 8	23 0 3		Oor.	19 14 18	19 15 89
	Nov	21 11 52	21 10 32	,	Nov.	18 8 2	18 9 21
	DEC	21 0 36	20 21 24		DEC	{ 2 21 24	2 11 58
			-		DEC	(17 15 46	18 1 48
		<del></del>				1	i

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (C Full Ecl.)
A.D. 1211.		d. h. m.	d. h. m.	A.D. 1214.		d. h. m.	d. h. m.
В.	JAN	16 4 30	16 16 6	E.	JAN	12 19 41	
March.	FEB	14 17 14	15 4 2	March.	FEB	11 8 25	12 18 12
14 6 9	MAR	16 5 59	16 13 49	d. h. m. 13 23 35	MAR.	(12 21 9	11 13 8
	APRIL	14 18 43	14 21 57	20 20 00	0	27 15 31	13 6 51 27 13 6
	MAY.	(14 7 27	14 5 17		APRIL	11 9 53	27 13 6 11 22 14
ļ	0	[29 1 49]	29 9 48		MAY.	10 22 37	11 10 46
	JUNE.	12 20 11	12 12 46		June .	9 11 21	9 20 45
	JULY.	12 8 55	11 21 32		JULY.	9 0 5	9 4 59
	Aug	10 21 39	10 8 33		Aug	7 12 49	7 12 29
	SEPT	9 10 23	8 22 27		SEPT	(6 1 33	5 20 22
	Ост	8 23 7	8 15 10		0	20 19 55	20 19 55
	Nov	7 11 51	7 9 52		Ост	5 14 17	5 5 25
1	0	22 6 13	22 2 8		Nov.	4 3 1	3 16 18
	DEC	7 0 35	7 5 5		DEC	3 15 45	3 5 17
1	1						
1212.	JAN	5 13 20	5 23 18	1215.	JAN	§ 2 4 30	1 20 24
Α.Θ.	FEB.	4 2 4	4 15 11	ъ.	~	(31 17 14	31 13 10
18 11 58	MAR.	4 14 48	5 4 10		FEB	•••	•••
	APRIL	3 8 32	3 14 22	14 5 24	3.5	2 5 58	2 6 44
	MAY.	(2 16 16	2 22 26	14 5 24	Mar. O	1)	17 5 25
	0	17 10 88	17 10 50			31 18 42	5103
1		(1 5 0	1 5 19		APRIL	30 7 26	130 16 4
	June.	80 17 44	30 12 4		MAY .	29 20 10	30 6 2
1	JULY.	30 6 28	29 19 48		June.	28 8 54	28 17 48
	Aug.	28 19 12	28 5 36		JULY.	27 21 38	28 3 47
	Sigra.	27 7 56	26 18 14		Aug	26 10 22	26 12 48
	Oct.	26 20 40	26 9 57		0	10 4 44	9 19 12
	0	(10 15 2	10 17 58		SEPT.	(24 23 6	24 21 44
	Nov.	25 9 24	25 4 14		Oct.	24 11 50	24 7 17
	DEC.	21 22 8	24 28 46		Nov.	23 0 34	22 17 55
			WU 11U		DEC.	22 13 18	22 5 45
1010	T	00 10 50	00 10 54	1216.	JAN	21 2 2	20 18 53
1213.	JAN.	28 10 52	23 18 54	С.В.	FEB	19 14 46	19 9 15
	FEB.	21 28 86	22 12 4		0	5 9 8	5 21 3
18 17 47	MAR.	28 12 20	24 2 18	18 11 18	MAR.	20 3 30	20 0 36
	APRIL	22 1 4	22 18 29		APRIL	18 16 14	18 16 33
	MAY .	21 18 48	21 22 10		May.	18 4 58	18 8 24
	June.	20 2 82	20 5 21		June.	16 17 42	16 23 26
	July.	19 15 16	19 12 6		July.	16 6 26	16 13 8
	Aug.	18 4 0	17 19 88		Aug.	\{\)14 \ 19 \ 10	15 1 24
	SEPT	16 16 44	16 4 40		0	29 13 32	28 23 41
	Ocr	16 5 28	15 16 14		Sept	13 7 54	13 12 32
	Nov.	14 18 12	14 6 85		Oct	12 20 38	12 23 8
	DEC	14 6 56	18 28 82		Nov.	11 9 22	11 9 40
	1	1			DEC	10 22 6	10 20 24

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1217. A. March. d. h. m. 13 17 2	JAN FEB MAR APRIL MAY . JULY . AUG SEPT OCT NOV DEC	d. h. m.  9 10 51 7 23 35 9 12 19 8 1 3 7 13 47 6 2 31 5 15 15 4 3 59 2 16 43 { 2 5 27 31 18 11 30 6 55 29 19 39	d. h. m.  9 7 26 7 18 49 9 6 44 7 19 32 7 9 21 6 0 15 5 15 39 4 6 57 2 21 35 2 11 16  {1 0 1 30 11 57 29 23 8	A.D. 1220. E.D. March. d. h. m. 13 10 28	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	d. h. m.  7 2 1  5 14 45  6 3 29  4 16 13  4 4 57  2 17 41  { 2 6 25  31 19 9  30 7 58  28 20 37  28 9 21  26 22 5  26 10 49	d. h. m. 7 13 31 6 2 37 6 13 18 4 22 1 4 5 28 2 12 37 1 20 32 31 6 18 29 18 47 28 10 14 28 4 13 26 23 29 26 18 28
1218. g. 13 22 51	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	13 14 2 28 8 24 26 21 8 28 9 52 26 22 36 26 11 20 25 0 4 9 18 26 24 12 48 23 1 32 21 14 16 21 3 0 19 15 44 19 4 23	13 15 49 28 9 41 26 19 41 28 5 32 26 15 53 26 3 25 24 16 38 9 20 53 24 7 36 22 23 48 21 16 26 21 8 39 19 23 48 19 13 27	1221. c. 13 16 17	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT O NOV DEC	24 28 84 28 12 18 25 1 2 28 18 46 28 2 80 21 15 14 21 8 58 19 16 42 18 5 26 17 18 10 { 1 12 32 16 6 54 15 19 88	25 11 40 21 2 5 25 13 81 23 22 27 28 5 48 21 12 21 20 19 28 19 4 10 17 15 24 17 5 89 1 16 40 15 22 49 15 17 57
1219. F. 14 440	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	\$\begin{cases} 2 & 22 & 50 \\ 17 & 17 & 12 \\ 16 & 5 & 56 \\ 17 & 18 & 40 \\ 16 & 7 & 24 \\ 15 & 20 & 8 \\ 14 & 8 & 52 \\ 29 & 3 & 14 \\ 13 & 21 & 36 \\ 12 & 10 & 20 \\ 10 & 23 & 4 \\ 10 & 11 & 48 \\ 9 & 0 & 32 \\ 8 & 13 & 16 \\ 28 & 7 & 38 \end{cases}\$	1	1222. B. 13 22 6	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT O Nov DEC	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14 18 27 18 7 42 14 28 22 18 11 59 27 10 20 12 21 47 11 5 85 10 12 28 8 19 82 7 8 50 6 14 12 22 8 46 5 8 18 4 18 55

	1	<u>-</u>					
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
						(O Full Ecl.)	O Full Eci.)
A.D. 1223.		d. h. m.	d. h. m.	A.D. 1226.		d. h. m.	d. h. m.
March.	JAN	8 17 11	3 12 46	D,	JAN	29 21 5	29 17 24
d. h. m.	FEB	2 5 55	2 7 35	Mr1	0	(13 15 27	14 3 57
14 8 55	MAR	3 18 39	4 1 55	March. $d. h. m.$	FEB	128 9 49	28 4 45
	APRIL	$\begin{cases} 2 & 7 & 23 \end{cases}$	2 18 27	13 21 21	MAR	29 22 33	29 16 47
	0	17 1 45	16 21 29		APRIL	28 11 17	28 5 48
	MAY.	$\begin{cases} 1 20 7 \end{cases}$	2 8 22		MAY .	28 0 1	27 20 0
		\text{\gamma}31 8 51	81 19 85		June .	26 12 45	26 11 8
	June .	29 21 35	30 4 40		JULY.	26 1 29	26 2 40
	July.	29 10 19	29 12 33		0	( 9 19 51	9 11 15
	Avg	27 23 3	27 20 18		Aug	124 14 13	24 17 55
	SEPT	26 11 47	26 4 51		SEPT	23 2 57	23 8 24
	0	£11 6 9	11 7 44		Oct	22 15 41	22 21 55
	Ocr	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	25 14 58		Nov	21 4 25	21 10 27
	Nov	21 13 15	24 2 51		DEC	20 17 9	20 22 6
	DEC	24 1 59	23 16 50				\$
1224.				1227.	JAN	19 5 53	19 8 55
G.F.	JAN	22 14 43	22 8 39	c.	0	∫ 3 0 15	3 5 15
	FEB	21 3 27	21 1 41		FEB	17 18 37	17 19 0
18 9 41	MAR	21 16 11	21 19 2	14 3 10	MAR	19 7 21	19 4 37
	APRIL	20 4 55	20 11 39		APRIL	17 20 5	17 14 20
	MAY.	19 17 80	20 2 40		MAY .	17 8 49	17 0 58
	June.	18 6 28	18 15 35		June.	15 21 33	15 13 8
ĺ	July.	17 19 7	18 2 33		JULY.	∫15 10 17	15 3 12
	Aug	16 7 51	16 12 10		0	130 4 39	30 4 12
	SEPT	14 20 35	14 21 16		Aug	13 23 1	13 18 57
	Ocr	14 9 19	14 6 40		SEPT	12 11 45	12 11 40
	Nov	12 22 3	12 16 51		Ocr	12 0 29	12 4 29
	DEC	12 10 47	12 4 6		Nov	10 13 13	10 20 31
1225.	T	10 00 03	10 10 00		DEC	10 1 57	10 11 8
1225. E.	JAN.	10 23 82	10 16 29	1228.	T	0 14 40	9 0 2
	FEB	$\left  \left\{ \begin{smallmatrix} 9 & 12 & 16 \\ 24 & 6 & 38 \end{smallmatrix} \right. \right $	9 6 0	B.A.	JAN	8 14 42 7 3 26	
18 15 83	-		24 19 87	18 8 59	FEB		7 11 8 7 20 41
TO TO 50	MAR.		10 20 85	10 0 00	MAR.		6 5 5
	APRIL	9 18 44 9 2 28	9 12 2		APRIL MAY .	6 4 54 5 17 38	5 13 8
	June .	7 15 12	7 19 18		JUNE .	4 6 22	3 21 45
	1	7 15 12	7 9 49		1	3 19 6	3 7 58
	July.		5 22 59		July .	2 7 50	1 20 32
	Aug.	$\left\{ \begin{array}{cccc} 5 & 16 & 40 \\ 20 & 11 & 2 \end{array} \right.$	19 21 32		Aug		31 11 41
			4 10 55		SEPT.		30 4 59
	SEPT.		8 21 59		Ocr.		29 23 24
	Oct.	1	1		Nov.	1	28 17 34
	Nov	2 6 52				(13 5 8	1
	DEC	$ \begin{cases} 1 & 19 & 86 \\ 81 & 8 & 20 \end{cases} $			Dec.	$\begin{cases} 13 & 3 & 3 \\ 27 & 23 & 30 \end{cases}$	
		101 0 20	51 6 20		DEC.		20 20 10
	1	1	1	II.			1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1229.		d. h. m.	d. h. m.	A.D. 1232.		d. h. m.	d. h. m.
G.	JAN	26 12 15	27 0 37	D.C.	JAN	24 3 25	24 2 4
March.	FEB	25 0 59	25 12 24	March.	FEB	22 16 9	22 20 88
d. h. m.	MAR	26 13 43	26 21 53	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MAR.	28 4 58	23 14 8
13 14 48		25 2 27	25 5 43	19 9 14	0	( 6 28 15	6 20 57
	A.PRIL	24 15 11	24 12 46		APRIL	21 17 87	22 5 16
	MAY.	18 9 33	8 16 25		MAY.	21 6 21	21 17 48
	0	23 3 55	22 20 4		June .	19 19 5	20 8 55
	June.				July.	19 7 49	19 12 24
	JULY.	22 16 39	22 4 45		1	17 20 83	17 20 16
	Aυg	21 5 23	20 15 49		Aug.	16 9 17	16 4 81
	SEPT	19 18 7	19 5 52		Sept		
	Oct	19 6 51	18 22 48		0	1 8 89	
	Nov	17 19 35	17 17 42		Ocr	15 22 1	15 18 55
	~ 0	2 13 57	2 11 4		Nov	14 10 45	14 0 57
	Dec	(17 8 19	17 13 9		DEC	<b>13</b> 28 29	13 18 54
				1233.	JAN	12 12 18	12 4 48
1230.	JAN	15 21 3	16 7 25	в.	FEB	11 0 57	10 20 58
F.	FEB	14 9 47	14 23 16	13 14 3	Mar	12 18 41	12 14 2
13 20 37	MAR	15 22 31	16 12 6		0	27 8 8	27 18 29
	APRIL	14 11 15	14 22 6		APRIL	11 2 25	11 6 56
	MAY .	∫1 <b>3 2</b> 3 59	14 5 59		MAY.	<b>10 15</b> 9	10 22 44
	0	28 18 21	28 17 19		June.	9 8 58	9 12 46
	JUNE .	12 12 43	12 12 45		July.	8 16 37	9 0 47
	July.	12 1 27	11 19 30		Aug	7 5 21	7 11 11
	Aug	10 14 11	10 3 21		SEPT	(518 5	5 20 41
	SEPT	9 2 55	8 13 18		0	20 12 27	20 2 28
	Ocr	8 15 39	8 2 5		Ост	5 6 49	566
	Nov	7 4 23	6 17 54		Nov	8 19 88	8 16 2
	0	21 22 45	22 2 42		DEC	8 8 17	8 2 47
	DEC	6 17 7	6 12 13			( 1 01 0	1 14 00
				1234.	JAN	$\begin{cases} 1 & 21 & 2 \\ 21 & 0 & 40 \end{cases}$	1 14 32
1231.	JAN	5 5 52	5. 7.43	A.	177	(81, 9.46)	81 8 17
E.	FEB	3 18 36	4 2 43		FEB	1 00 00	1 17 0
14 2 26	MAR.	5 7 20	5 19 42	19 10 50	7/T	1 22 80	1 17 8
1 - 20	APRIL	3 20 4	4 9 47	13 19 52	Mar. O	16 16 52	17 5 7
	MAY.	3 8 48	3 20 52			81 11 14	81 7 49
	JUNE .	1 21 32	2 5 31		APRIL	29 28 58	29 28 16
		( 1 10 16	1 12 46		MAY.	29 12 42	29 14 54
4	JULY.	30 23 0	30 19 43		June.	28 1 26	28 5 59
	Aug	29 11 44	29 3 26		July.	27 14 10	27 20 1
	SEPT.	28 0 28	27 12 49		Aug	26 2 54	26 8 47
	Oct.	27 13 12	27 12 49		~ 0	9 21 16	9 7 14
	Nov.	26 1 56	25 14 56		SEPT	24 15 88	24 20 82
*	DEC.	25 14 40	25 7 43		Oct	24 4 22	24 7 40
		70 T# #0	40 / 45		Nov	22 17 6	22 18 82
1		1	1	ll .	DEC	22 5 50	22 5 28

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 1235.		d. h. m.	d. h. m.	A.D. 1238.		d. h. m.	d. h. m.
G.	JAN	20 18 35	20 16 15	c.	0	( 2 15 22	2 7 30
March. d. h. m.	FEB	19 7 19	19 3 12	1	Jan	17 9 44	17 21 57
14 1 41	MAR	20 20 3	20 14 32	March.	FEB	15 22 28	16 10 59
	APRIL	19 8 47	19 2 44	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAR.	17 11 12	17 21 27
	MAY.	18 21 31	18 16 7	10 10 '		1	
	June .	17 10 15	17 6 43		APRIL	15 23 56	16 5 51
	_	16 22 59			MAY.	15 12 40	15 13 1
}	July.	1			June.	14 1 24	13 19 58
	Αυα	15 11 43	15 13 48		0	28 19 46	29 2 38
	SEPT	14 0 27	14 4 59		July.	13 14 8	13 3 48
	Oct	13 13 11	13 19 18		Aug	12 2 52	11 13 36
	Nov	12 1 55	12 8 35		SEPT	10 15 36	10 2 10
	DEC	11 14 39	11 20 49		Ост	10 4 20	9 17 47
					Nov	8 17 4	8 11 59
1236.	JAN	(10 3 23	10 8 3		DEC	8 5 48	8 7 27
F.E.	0	24 21 45	21 23 37			1	
	FEB.	8 16 7	8 18 22	1239.	JAN	6 18 33	7 2 33
18 7 80	MAR.	9 4 51	9 3 57	В.	FEB	5 7 17	5 19 43
10 . 0	1	7 17 35	7 13 17	14 0 56	MAR.	6 20 1	7 10 1
	APRIL	7 6 19	6 23 6		APRIL	5 8 45	5 21 17
	MAY.	5 19 3			MAY.	4 21 29	5 6 1
	June .		5 10 14		June .	3 10 13	3 13 10
	July.	5 7 47	4 23 15	11	JULY.	2 22 57	2 19 48
	0	20 2 9	20 4 22		""	( 1 11 41	1 3 0
	Aug.	8 20 81	3 14 15		Aug	31 0 25	30 11 52
	SEPT.	2 9 15	2 6 44	H	SEPT	29 13 9	28 23 15
	Ocr	$\int 1 21 59$	1 23 52		Oct.	29 1 53	28 13 39
	00	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	31 16 40	]}		(12 20 15	13 1 20
	Nov	29 28 27	80 8 16	1	Nov.	27 14 37	27 6 51
	DEC	29 12 11	20 22 9	1			27 1 54
					DEC	21 5 21	21 1 01
	0	(18 6 83	13 0 16	1240.	JAN	25 16 5	25 21 17
1237.	JAN.	17	1	A.G.	FEB.	1	24 15 19
p.	FEB.	1	26 20 18	13 6 45	MAR.		25 6 50
18 18 19	MAR.		28 5 1	-0 0 10	APRIL	23 6 18	23 19 21
	APRIL		26 12 56		1	(8 0 40	1
	MAY		25 20 57		MAY	ء ا	1
			24 6 7		June	l"	
	June	9 10 58		11			1
	7			11	JULY		
	July			11	A.UG.	`	
	Aug.			11	SEPT.		
<b> -</b>	SEPT.		1	11	Oct.	. 17 10 49	E .
	Oct.	1		13	0	J	1 11 58
	Nov.			11	Nov.	. 15 23 2	
	DEC.	· 18 21 C	19 6 19	,	Dec.	. 15 12 10	15 3 13
	1	1					

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1241.		d. h. m.	d. h. m.	A.D. 1244.		d. h. m.	d. h. m.
March.	JAN	14 0 54	13 20 46	C.B.	JAN	11 16 4	11 15 16
d. h. m.	FEB	12 13 38	12 15 12	March.	FEB	(10 4 48	10 1 57
13 12 34	MAR	14 2 22	14 9 11	$\vec{d}$ . $\vec{h}$ . $\vec{m}$ .	0	24 23 10	25 11 43
1	APRIL	(12 15 6	13 1 28	13 6 0	Mar	10 17 32	10 12 47
	0	27 9 28	27 5 2		APRIL	9 6 16	9 0 11
	MAY .	12 3 50	12 15 20		MAY.	8 19 0	8 12 42
	JUNE .	10 16 34	11 2 38		June .	7 7 44	7 2 32
	JULY.	10 5 18	10 11 56		July.	6 20 28	6 17 36
	Aug	8 18 2	8 20 9		Aug	5 9 12	5 9 21
	SEPT	7 6 46	7 4 18		0	20 3 34	19 19 0
	Ост	6 19 30	6 13 14		SEPT	3 21 56	4 1 4
	0	(21 13 52	21 15 24		Oct	<b>3</b> 10 40	3 16 10
	Nov	5 8 14	4 23 32		Nov	1 23 24	2 6 15
	DEC	4 20 58	4 11 33		DEC	<b>f 1 12</b> 8	1 19 12
					D20	31 0 52	31 7 0
1242.	JAN	3 9 43	3 1 21		_		
E.	FEB	1 22 27	1 16 42	1245.	JAN	29 13 36	29 17 42
13 18 23	MAR	3 11 11	3 9 12	А.	_0	$\int 13 \ 7 \ 58$	13 12 51
	APRIL	1 23 55	2 2 3	40 44 40	FEB	(28 2 21	28 3 26
	MAY.	ſ <b>1</b> 12 39	1 18 22	13 11 49	MAR	29 15 5	29 12 34
	mai.	31 1 23	31 9 19	1	APRIL	28 3 49	27 21 47
	June .	29 14 7	29 22 25	1	MAY .	27 16 33	27 7 58
	July.	29 2 51	2º 9 46		June.	26 5 17	25 19 51
	Aug	27 15 35	27 19 52		JULY.	25 18 1	25 9 51
	SEPT	26 4 19	26 5 29		O <b>A</b> == ==	9 12 23	9 11 54
	Ост	25 17 3	25 15 17	ł	AUG Sept	$\begin{pmatrix} 24 & 6 & 45 \\ 22 & 19 & 29 \end{pmatrix}$	24 1 47 22 18 55
	Nov	24 5 47	24 1 44		Oct	22 19 29 22 8 13	22 18 55 22 12 17
	DEC	23 18 31	23 12 59		Nov	20 20 57	21 4 49
	i				DEC	20 20 37	20 19 46
1243.	JAN	22 7 16	22 1 5		JEC	70 9 AT	70 T9 40
D.	FEB	20 20 0	20 14 4	1246.	JAN	18 22 26	19 8 45
	0	7 14 22	8 3 43	G.	FEB	17 11 10	17 19 41
14 0 12	MAR	(22 8 44	22 4 2	13 17 38	MAR	18 23 54	19 4 53
	APRIL	20 21 28	20 18 56		APRIL	17 12 38	17 12 54
	MAY.	20 10 12	20 10 22		MAY .	17 1 22	16 20 34
	JUNE.	18 22 56	19 1 47		June .	<b>15 14</b> 6	15 4 55
	JULY.	18 11 40	18 16 31		July .	15 2 50	14 14 58
	Aug	17 0 24	17 6 9		Aug	13 15 34	13 3 31
	SEPT.	(31 18 46	31 5 6		SEPT	12 4 18	11 18 50
	OCT.	15 13 8	15 18 39		Ocr	11 17 2	11 12 27.
	Nov.	15 1 52	15 6 19		Nov	10 5 46	10 7 14
	-	13 14 36 13 3 20	13 17 30		DEC	§ 9 18 30	10 1 45
	DEC	15 5 20	13 4 28		0	24 12 52	24 5 25
	<u> </u>	1		1			

THE R. LEWIS CO., LANSING, LAN	· · · · · · · · · · · · · · · · · · ·						
Mean Verbal Equinox,	Month.	Monn New Moon. ( > Full Ecl.) (c	True New Moon. ) Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 1247.		d. h. m.	d. h. m.	A.D. 1250.		d. h. m.	d. h. m.
Ya '	JAN	8 7 14	8 18 86	В.	JAN.	4 22 21	4 15 53
March, d. h. m.	Fen	6 19 58	7 8 58	March.	FEB	3 11 8	3 9 49
13 23 26	MAR.	8 8 42	8 20 36	d. h. m. 18 16 58	MAR.	4 23 52	5 4 0
	Aran	6 21 26	7 5 47	20,00	APRIL	( 3 12 36	3 21 7
	MAY .	6 10 10	6 13 20		O	18 6 58	18 4 40
	JUNE .	1 4 22 51	4 20 11		MAY.	8 1 20	3 12 11
	17	1 19 17 16	19 22 57		June .	1 14 4	2 0 45
	Juny .	4 11 88	4 8 28		JUNE .	(1 2 48	1 11 4
	Ara	8 0 22	2 12 5		July .	80 15 82	30 19 52
			81 28 14		A	1 1	1
	BEPT	1 13 6	80 18 26		Aug.	29 4 16 27 17 0	29 4 8   27 12 46
		(1 1 50			SEPT		12 10 5
	Orr.	180 11 84	80 6 82		0	12 11 22	
	Nov.	29 8 18	29 1 87		Oct	27 5 44	26 22 31
	()	13 21 40	18 20 1		Nov.	25 18 28	25 9 42
	DEC.	28 16 2	28 21 9		DEC	25 7 12	24 22 32
				1251.	JAN	28 19 56	28 12 57
1248.	* ***		NT 17 00	Α.	FEB	22 8 41	22 4 42
1 <b>2.40.</b> 1 8.10.	JAN	27 4 47	27 15 26	18 22 42	MAR.	28 21 25	28 21 18
	Fkn	25 17 81	26 7 11		0	( 7 15 47	7 21 26
13 5 15	Ман	26 6 15	26 19 52		APRIL	22 10 9	22 13 43
	Armin	24 18 59	25 5 42		MAY .	21 22 58	22 5 21
	May .	21 7 48	21 18 27		JUNE .	20 11 37	20 19 28
		1 H 2 5	7 28 47		July .	20 0 21	20 7 49
	JUNE .	(22 20 27	22 20 18		Aug.	18 18 5	18 18 41
	Juny .		22 8 2		SEPT.	17 1 49	17 4 42
	Aug.	1 1	20 11 2		0	( 1 20 11	1 9 55
	NEPT.	. 19 10 39	18 21 10		Oct	16 14 88	16 14 86
	Chir.		18 10 6		Nov.	15 8 17	15 0 51
	Nov.	1	17 2 0		DEC.	14 16 1	14 11 44
	()	1 2 6 29	2 11 84				10 00 16
	DEC.	(17 0 51	16 20 15	1252.	JAN.	18 4 45	12 23 16
					FEB.	11 17 29	11 11 84
1240.	JAN.	. 15 18 85	15 15 84	18 4 81	MAR.	12 6 18	1
1.	FKB.	14 2 19	14 10 22		0	(27 0 85	27 18 0
18 11 4	MAR.	. 15 15 8	16 8 9		APRIL	10 18 57	10 14 55
	Arut	14 8 47	14 17 6		MAY .	1	10 5 54
	Mar	. 18 16 81	14 4 7		June.	1	8 21 20
	JUNE	12 5 15	12 12 49		July .	1	1
	July		11 20 18		A.ua.	1	
	Ava.		10 8 25		SEPT.		
	BEFT.	1	8 11 26		0	20 4 59	
	Our.	1	7 21 4		Oct.		
	Nov.		6 8 58		Nov.	1	
	Dien.		1	11	DEC.	. 8 0 49	8 8 27
	1 ** Peril	1	1	11		1	1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1253,		d. h. m.	d. h. m.	A.D. 1256.		d. h. m.	d. h. m.
E.		( 1 13 33	1 14 21	B.A.	0	(13 23 6	13 16 8
	JAN	(31 2 17	31 0 56		JAN	28 17 28	29 6 18
March.	Feb			March.	FEB	27 6 12	27 19 12
d. h. m.	T.ED.	امین دا	1 11 27	d. h. m. 13 3 46	MAR	27, 18 56	28 5 26
13 10 19	Mar	$\begin{cases} 1 & 15 & 2 \\ 31 & 3 & 46 \end{cases}$	30 22 12	10 0 10	APRIL	26 7 40	26 13 34
	APRIL	29 16 30	29 9 49		MAY.	25 20 24	25 20 32
	MAY.	29 5 14	28 22 46		June .	24 9 8	24 3 21
		27 17 58	27 13 11		1	(9 3 30	9 9 19
	June.	27 6 42	27 4 44		JULY.	23 21 52	23 11 10
	JULY.		25 20 44		Aug.	22 10 36	21 21 2
	Aug	25 19 26 24 8 10	24 12 30		SEPT.	20 23 20	20 9 44
	SEPT				Oct.	20 12 4	20 1 33
	Out.	23 20 54	24 3 25			19 0 48	18 19 52
	Nov	22 9 38	22 17 12		Nov.	18 13 32	18 15 29
	Dec	21 22 22	22 5 42		DEC	10 15 52	10 10 20
1254.	JAN	20 11 7	20 16 55	1257.	JAN	17 2 17	17 10 33
D.	0	(4 5 29	4 7 20	G.	FEB.	15 15 1	16 3 37
	FEB	18 23 51	19 2 57		MAR.	17 3 45	17 17 48
13 16 8	MAR	20 12 35	20 12 4	13 9 35	APRIL	15 16 29	16 4 54
	APRIL	19 1 19	18 20 55		MAY.	15 5 13	15 13 31
	Max .	18 14 3	18 6 17		JUNE .	13 17 57	13 20 37
	June .	17 2 47	16 17 5		1	13 6 41	13 3 17
1	JULY .	(16 15 81	16 5 56		July .	11 19 25	11 10 40
	0	31 9 58	81 11 56			10 8 9	9 19 43
	Aug.	15 4 15	14 21 1		SEPT.	9 20 53	9 7 18
1	SEPT	13 16 59	13 13 50		Nov.	(8 9 37	7 21 48
	Ocr	13 5 43	13 7 27		0	23 3 59	23 10 5
	Nov.	11 18 27	12 0 46		DEC.	7 22 21	7 14 57
	DEC	11 7 11	11 16 46		Disc	. 22 21	1 11 01
1055		6 0 10 55	10 6 50	1258.	JAN	6 11 5	6 9 51
1255. c.	JAN.	9 19 55	10 6 50 24 8 22	F.	FEB.	4 28 49	5 4 59
	0	21 14 17	8 18 43	13 15 24	MAR.	6 12 33	6 22 49
10 01 57	FEB.	8 8 39	10 4 35	10 10 11	APRIL	5 1 17	5 14 10
13 21 57	MAR.	9 21 23	8 12 55		MAY.	(4141	5 2 33
	APRIL	8 10 7			0	19 8 28	1
	MAY.	7 22 51	7 20 29 6 4 13		JUNE .		3 12 20
	JUNE .	6 11 35			JULY	1	2 20 19
	July.	زا	5 13 12 21 2 0			(1418	
	0	20 18 41 4 13 3			Aug.		1
	A.UG.	1	4 0 25 2 14 25		SEPT.		
	SEPT		2 14 25 2 7 6	-	Oct.	28 18 25	1
	Oct	2 14 31	1		0	(12 12 47	
	Nov.	1 3 15			Nov.	12	1
	7	(30 15 59	30 20 38 30 14 34		DEC.	17	26 11 31
	DEC.	80 4 43	90 14 91				

1261. B.   S   S   S   S   S   S   S   S   S	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
March.	1259.	T			1262,	_		
13 21 12   Mar.   25 10 6   25 16 19   April   28 22 50   24 8 22   28 22   18 22 25   24 8 22   28 22   18 22 25   28 22 14   20 14   20 20 78 38   Mar.   20 14 0   20 14 0   20 14 0   20 0   20 14 0   2	March.				Δ.		1	'
APRIL 28 22 50 24 8 22   18 14 39					March.	FEB		
C	18 21 12		1		d. h. m.		13	
MAY . (23 11 84 23 22 11   MAY . (20 2 44 19 19 38   June . (21 18 2 2) 940   Juny . (21 18 2 2) 19 16   Aug (20 1 46 28 852   Nov (16 16 56 16 16 8 852   Nov (16 15 58 16 8 19 10 Nov (16 15 58 16 8 19 10 Nov (16 15 58 16 8 19 10 Nov (16 15 58 16 8 19 10 Nov (16 15 58 18 16 8 19 10 Nov (16 15 58 18 16 8 19 10 Nov (16 15 58 18 16 8 19 10 Nov (16 16 56 18 18 18 0 41 18 8 1 1 NAR (18 18 55 18 16 85 18 18 18 18 18 18 18 18 18 18 18 18 18	1				18 14 39			
JUNE. 22 0 18 22 9 40 JULY. 21 18 2 21 19 16 Arg. 20 1 46 20 8 52 Sept. 18 14 80 12 27 Oct. 18 8 14 17 21 46 O			. 1	i i			1	1
JULY   21 18 2   21 19 16     Ard   20 1 46   20 8 52     Shert   18 14 80   18 12 27     Oct   18 8 14   17 21 46     O   (1 21 86   1 23 10     Nov.   (16 15 58 16 8 19     Drc   16 4 42   15 20 17     1260				1			20 2 44	19 19 33
Arg.   20   1 46   20   8 52						June.	18 15 28	18 9 5
Sept.   18 14 80   18 12 27   Oct.   18 8 14   17 21 46   Oct.   18 8 14   17 21 46   Oct.   16 14 58   16 8 19   Dec.   16 16 42   15 20 17		Juny.	21 18 2	21 19 16	}	JULY.	18 4 12	18 0 7
Cot.   18 8 14   17 21 46   128 10   Nov.   16 15 58   16 8 19   Dec.   12 19 52   13 4 0		Arga	20 1 46	20 8 52		Aug	(16 16 56	16 16 8
1280	1	Sept	18 14 80	18 12 27		0	(31 11 18	81 2 53
Nov.   16 15 58   16 8 19		Ocr	18 8 14	17 21 46		SEPT	15 5 40	15 8 21
1260. DEC 16 4 42 15 20 17  1260. DEC 12 19 52 13 4 0  DEC 12 15 56 2 20 9  DEC 12 15 56 2 20 9  DEC 12 15 56 2 20 9  DEC 12 15 56 2 20 9  DEC 12 15 56 2 20 9  DEC 12 15 56 2 20 9  DEC 12 15 56 2 20 9  DEC 12 15 56 2 20 9  DEC 12 15 56 2 20 9  DEC 12 15 56 2 20 9  DEC 12 15 54 4 5 11 11 14 11 11 14 11 11 14 11 11 14 11 11		0	( 1 21 86	1 28 10		Oct	14 18 24	15 0 3
1260.  D.C.  FER 18 6 11  18 8 1  MAR 18 18 55  APRIL 12 7 89  JUNE . 10 9 7 10 15 55  JULY . 9 21 51  OCT 6 12 8 6 18 49  Nov 6 0 47 5 0 8  DEC 4 18 81 4 10 41  1261.  B. FRB 1 14 59 1 9 81  APRIL 1 16 27 1 11 22  MAR 8 3 48 2 22 2  OCT 29 6 89  JUNE . 16 6 7 1 1 29  MAY . 16 27 1 1 22  MAY . 28 19 28 28 24  APRIL 1 6 27 1 11 22  MAY . 29 6 89  JUNE . 29 6 89  JUNE . 29 6 89  JUNE . 3 6 18 19 7  MAY . 4 18 81 4 10 41  1264.  FEB 9 21 20 10 2 22  MAR 11 1 8 86 11 15 58  FEB 9 21 20 10 12 49  SEPT 0 24 15 41 11 14 42  APRIL 1 16 27 1 11 22  MAY . 9 11 32 9 5 8  JULY . 28 19 28 28 28 14  AUG 27 8 7 27 18 24  OCT 25 9 85 25 14 45  Nov 20 18 29 20 15 8		Nov	£16 15 58	16 8 19		Nov	18 7 8	13 14 42
1261.		DEC	16 4 42	15 20 17		DEC	12 19 52	13 4 0
The color of the	1260.	Jan.	14 17 27	14 9 49	11	JAN	11 8 36	11 15 53
18			5	1	G.	FEB	( 9 21 20	10 2 22
APRIL 12 7 89 12 8 57 MAY . 11 20 28 12 0 59 JUNE . 10 9 7 10 15 55 JULY . 9 21 51 10 5 16 AUG 8 10 85 8 17 8 SEPT 6 28 19 7 8 41 Oct 6 12 8 6 18 49 Nov 5 0 47 5 0 8 DEC 4 18 81 4 10 41  1261. B. Frii 1 14 59 1 9 81 B 8 50 MAR 11 10 4 11 11 42 APRIL 9 22 48 9 20 22 Nov 2 15 56 2 20 9  SEPT 4 14 28 4 8 45 Oct 4 8 12 4 2 18 Nov 2 15 56 2 20 9  Lance . 4 18 81 4 10 41  1264. Frii 1 16 27 1 11 22 MAY . 8 10 85 80 16 50 JUNE . 29 6 89 29 8 18 JULY . 28 19 28 28 28 14 Aug 27 8 7 27 18 24 O	18 8 1			<b>)</b>		0	24 15 41	24 20 20
MAY . 11 20 28 12 0 59 JUNE . 10 9 7 10 15 55 JULY . 9 21 51 10 5 16 Aug 8 10 83 8 17 8 SEFT 6 28 19 7 8 41 Oct 6 12 8 6 18 49 Nov 6 12 8 6 18 49 Nov 4 18 81 4 10 41  1261. B. Fre 1 14 59 1 9 81 Arril . 1 16 27 1 11 22 IT 22 5 18 11 87 Arril . 1 16 27 1 11 22 IMAY . 8 10 83 80 17 18  MAY . 8 16 28 19 28 28 28 14 Aug 27 8 7 27 18 24 Oct 28 19 28 28 28 14 Aug 27 8 7 27 18 24 Oct 25 9 85 25 14 45 Nov 20 18 29 20 15 8	1.00	1			18 20 28	MAR	11 10 4	11 11 42
JUNE. 10 9 7 10 15 55 JULY. 9 21 51 10 5 16 Aug. 8 10 83 8 17 8 SEPT. 6 28 19 7 8 41 Oct. 6 12 8 6 18 49 Nov. 6 12 8 6 18 49 Nov. 18 8 2 15 2 21 51 1 1 22 1 16 27 1 11 22 1 16 27 1 11 22 1 16 27 1 11 24 1 16 27 1 24 1 24 1 24 1 24 1 24 1 24 1 24 1		1	1	1		APRIL	9 22 48	9 20 22
July			1	1		MAY .	9 11 32	9 5 8
Aug 8 10 83 8 17 8   Sept 6 28 19 7 8 41   Out 6 12 8 6 18 49   Nov 5 0 47 5 0 8   Dec 4 18 81 4 10 41    1261.				1		JUNE .	8 0 16	7 14 56
Sept.   6 28 19   7 8 41		1	1			JULY .	7 13 0	7 2 36
Oct 6 12 8 6 18 49 Nov 6 12 8 6 18 49 DEC 4 18 81 4 10 41  1261. B. FRB 1 14 59 1 9 81 MAR { 8 8 48 2 22 2 2 } 17 22 5 18 11 87 APRIL						Aug.	(6 1 44	5 16 85
Nov.   5 0 47   5 0 8		1		1		0		20 19 40
Dec.   4 18 81   4 10 41   Oct.   4 8 12   4 2 18 Nov.   2 15 56   2 20 9 9		1				SEPT.	4 14 28	4 8 45
1261.  B. JAM 8 2 15 2 21 51  B. HAR   1 14 59   1 9 81   1 9 81		L		1		Oct.	4 8 12	4 2 18
1261.  B.   Jan.	1	DEC.	4 10 01	4 10 41		Nov.	2 15 56	2 20 9
B. FRB 1 14 59 1 9 81	1					1	(2 4 40	2 18 8
18 8 50 MAR { 8 8 48 2 22 2 2	1261.	JAN	8 2 15			DEC.	·   {81 17 24	·
A PRIL   1 16 27   1 11 22   18 2 17   18 2	] ».	FEB	1 14 59	1 9 81				
APRIL 1 18 27 1 11 22 F.E. FRB. 28 18 52 29 4 2 18 1 51 1 1 1 48 18 2 17 MAR. 29 7 87 29 12 56 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 27 20 36 APRIL 27 20 21 49 25 12 50 40 APRIL 27 20 21 20 22 20 APRIL 27 20 36 APRIL 27 20 21 20 22 20 APRIL 27 20 36 APRIL 27 20 21 20 22 20 APRIL 27 20 21 21 22 20 45 APRIL 27 20 21 20 22 20 APRIL 27 20 21 20 21 20 21 20 APRIL 27 2	18 8 50	MAR	8 8 48	2 22 2			5	1 4 21
MAY. \begin{array}{c c c c c c c c c c c c c c c c c c c		0	17 22 5	18 11 87	11		100	3 30 17 19
MAY . \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	I	Arnit	1 16 27	1 11 22	F.E.	FEB.	·   28 18 52	29 4, 2
June   29 6 89 29 8 18   Max   27 9 5 27 8 58     July   28 19 28 28 28 14   June   25 21 49 25 12 8	1	37.4	( 1 5 11	1 1 48	18 2 17	MAR.	29 7 87	29 12 56
July . 28 19 28 28 28 14  Aug 27 8 7 27 18 24  O		MAY.	80 17 55	80 16 50		APRIL	27 20 21	27 20 36
Aug 27 8 7 27 18 24  (11 2 29 10 12 49)  Beff 25 20 51 26 2 80  Oct 25 9 85 25 14 45  Nov 28 22 19 24 2 20  July . 25 10 88 24 22 2  Aug 25 10 88 24 22 2  Sept 22 12 1 22 2 8  Oct 22 0 45 21 20 2  Nov 20 18 29 20 15 8	1	JUNE .	29 6 89	29 8 18		MAY	27 9 5	27 8 58
Atig 27 8 7 27 18 24 July . 25 10 88 24 22 2		July .	28 19 28	28 28 14		June	25 21 49	25 12 5
O   11 2 29 10 12 49   Aug.   28 28 17 28 10 88   Sept.   22 12 1 22 2 8   Oct.   25 9 85 25 14 45   Nov.   28 22 19 24 2 20   Nov.   20 18 29 20 15 8	1	1 .	27 8 7	27 18 24	1	July	25 10 89	3 24 22 2
Beff.   25 20 51 26 2 80     Sept.   22 12 1 22 2 8   Oct.   25 9 85 25 14 45   Oct.   22 0 45 21 20 2	1		(11 2 29	10 12 49		Aug.	28 28 17	28 10 88
Oct.     25     9     85     25     14     45     Oct.     22     0     45     21     20     22       Nov.     28     22     19     24     2     20     Nov.     20     18     29     20     15     8	1		25 20 51	26 2 80		SEPT.	22 12 1	22 2 8.
Nov' 28 22 19 24 2 20 Nov 20 18 29 20 15 8	1		1 -	1		Ocr.	22 0 43	5 21 20 2
	i	1				Nov.	20 18 29	20 15 8
DEC.   28 11 8 28 18 26   DEC.   20 2 18 20 9 58	1		1			DEC.	20 2 18	3 20 9 58
	*							

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
Vernal	Month.  O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OOT Nov DEC	Moon.	Moon.	Vernal	Month.  JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT O NOV DEC	Moon.	Moon.
1266. c. 13 13 54	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV	7 23 46 6 12 30 8 1 14 6 13 58 6 2 42 4 15 26 19 9 48 4 4 10 2 16 54 1 5 38 30 18 22 30 7 6 28 19 50 (13 14 12	8 5 7 6 23 20 8 14 57 7 8 28 6 18 11 4 20 53 19 6 13 4 3 40 { 2 10 37 { 81 18 50 30 5 10 29 18 15 28 10 10 13 20 27	1269. F. 18 7 21	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT O OCT Nov DEC	4 14 56 3 8 40 4 16 24 { 3 5 8 {17 28 80 2 17 52 { 1 6 36 {80 19 20 80 8 4 28 20 48 27 9 82 {12 8 54 {26 22 16 25 11 0 21 28 44	2 21 10 4 12 19 8 4 15 18 5 15 2 20 21 1 11 52 { 1 2 7 {80 14 52 29 2 16 27 12 50 11 17 80 26 23 12 25 9 46 24 20 40
1267. B. 13 19 43	DEC.  JAN. FEB. MAR. APRIL MAY O JUNE JULY AUG. SEPT. OCT. NOV. DEC.	28 8 34 26 21 19 25 10 8 26 22 47 25 11 81 25 0 15 8 18 37 28 1 2 58 21 14 27 20 8 11 19 15 55 18 4 89	28 4 17 26 28 28 25 17 54 27 10 28 26 0 18 25 11 18 8 9 42 23 20 7 23 8 45 21 11 14 19 19 35 19 5 30 17 17 81	1270. E. 13 13 10	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT NOV DEC.	18 5 87 16 18 21 1 12 48 16 7 8 14 19 48	21 21 55 21 12 80 20 8 45 19 19 8 18 9 58 3 16 23 54 80 22 51 5 16 12 50 15 0 58

Mean Versal Kournes,		New cin. li Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1271. 19. March.	JAN 12 21 18 12 2	h. m. 28 16	A.D. 1274. G.	JAN	d. h. m.	d. h. m. 9 22 48
d 6. m. 18 18 68		9 85 9 85 5 47	March. d. h. m. 18 12 25	FEB	24 6 50 8 1 12 9 18 56	24 0 42 8 14 30 10 8 16
	Jenk. 9 12 58 9	6 52 5 27		APRIL MAY.	8 2 40 7 15 24	8 18 16 7 21 12
		9 42 1 28 8 49		June. July. O	6 4 8 5 16 52 20 11 14	6 4 1 5 10 47 20 16 2
Name (and ) and )	Ocr. , 5 15 54 5 ; Nov. , 4 4 88 4 ; Dac. , 8 17 22 4	20 8 11 88 1 51		Aug Sept	4 5 36 2 18 20 ( 2 7 4	8 18 88 2 4 86 1 17 29
1272.		14 81		Nov	81 19 43 80 8 82	81 9 25 80 8 50
4.74.	Fan. 15 18 12 15	1 39 14 56 11 21	1275.	DEC	29 21 16	29 28 21 28 18 25
18 0 47	MAR. (80 20 18 10) Armit, 20 9 2 20	20 8 4 27	r. 18 18 14	FEB MAR APRIL	26 22 44 28 11 28 27 0 12	27 11 28 29 1 28 27 12 21
CONTRACTOR OF THE CONTRACTOR O	June . 27 10 80 26	18 25 28 56 12 42		May. June.	26 12 56 25 1 40	26 20 55 25 4 2
Andread Construction of the Construction of th	7)   10 17 86 10 Aca.   (25 11 58 25 Sec.   24 0 42 28	19 84 8 54 21 8		Aug Sept	24 14 24 28 8 8 21 15 52	24 10 50 22 18 25 21 8 48
And the second control of the second control	Oct. , 28 18 26 28 Nov. , 22 2 10 22	15 7 8 54		Oct Nov	21 4 86 19 17 20 ( 4 11 42	1
1070	Jan. 20 8 89 20	1 14 15 25		DEC.	(19 6 4	18 28 5
1273.	O ( H 22 1 8 Fee { 14 16 28 19	16 24 8 10	1276. s.b. 18 0 8	JAM Fed Mae	17 18 49 16 7 88 16 20 17	16 12 86 17 6 9
18 6 86	1	12 46 20 46 4 0		MAY .	15 9 1 {14 21 43 {29 16 7	15 9 41
<b>CONNECTION</b>	June. 16 19 19 16 July. 16 8 8 15	11 80 20 22		JUNE.	18 10 29 12 28 18	18 19 88 18 8 48
Terminal control of the control of t	O (81 9 25 81 Atta 14 20 47 14 Serr 18 9 81 12	9 14 7 84 21 42		SEPT	10 0 41	9 19 17
en-e-chostoggeneration	Oct 12 22 15 12 Nov 11 10 59 11	14 88 9 25		Nov.	8 2 8 22 20 8	7 15 88 L 28 4 82
	Dac 10 98 48 11	# 91		Dac.	* 14 02	, , , , , ,

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Mean		Mean New	True New	Mean		Mean New	True New
Vernal Equinox.	Month.	Moon.	Moon. (O Full Ecl.)	Vernal Equinox.	Month.	Moon.	Moon. (O Full Ecl.)
				Equinoz.		(OF an Ecr.)	C Full Edi.)
A.D.		d. h. m.	d. h. m.	A.D.		d. h. m.	7 7
1277. c.	~			1280.	_	1	d. h. m.
March.	JAN	6 3 37	5 19 51	G.F. March.	JAN	3 18 48	3 22 24
d. h. m.	FEB	4 16 21	4 12 35	d. h. m.	FEB	2 7 32	2 8 51
13 5 51	MAR	6 5 5	6 6 6	12 23 18	MAR	( 2 20 15	2 18 43
	APRIL	4 17 49	4 23 17		0	17 14 37	18 2 46
	MAY.	§ 4 6 33	4 15 8		1 222	(1 8 59	1 4 30
	0	(19 0 55	18 19 57		APRIL	(30 21 43	30 14 48
	JUNE .	2 19 17	3 4 58		MAY.	30 10 27	30 2 20
	T	(281	2 16 40		June .	28 23 11	28 15 39
	Jura.	81 20 45	(1237		JULY.	28 11 55	28 6 42
	Aug	30 9 29	30 11 42		Aug	27 0 39	26 23 0
	SEPT	28 22 13	28 20 45		0	(10 19 1	10 10 54
	Ocr	28 10 57	28 6 26		SEPT		· •
	0	(12 5 19	12 6 59			(25 13 23 25 2 7	25 15 44 25 8 1
	Nov	26 23 41	26 17 9		Nov.	1	
1	DEC.	26 12 25				23 14 51	23 23 10
	DEC	20 12 25	26 5 4		DEC	23 3 35	23 12 45
1070	_			1281.	JAN.	01 16 00	NO 0 20
1278. в.	JAN	25 1 10	24 18 13	1201. E.		21 16 20	22 0 39
	FEB	23 13 54	23 8 32		FEB	20 5 4	20 10 55
13 11 40	MAR	25 2 38	24 23 51	40 F -	7.0	6 23 26	7 3 42
	APRIL	23 15 22	23 15 42	13 5 7	MAR	(21 17 48	21 19 52
	MAY.	23 4 6	23 7 29		APRIL	20 6 32	20 4 5
	June.	21 16 50	21 22 28		MAY.	19 19 16	19 12 27
	JULY.	21 5 34	21 12 8		June.	18 8 0	17 21 56
	Aug	19 18 18	20 0 23		July.	17 20 44	17 9 28
	SEPT	18 7 2	18 11 35		Aug	(16 9 28	15 23 28
	Oct	17 19 46	17 22 15		0	31 8 50	81 8 83
	Nov	16 8 30	16 8 53		SEPT	14 22 12	14 15 51
	DEC	15 21 14	15 19 40		OUT	14 10 56	14 9 49
		10 21 11	10 10 10		Nov	12 23 40	18 4 7
1070	-	4. 0.70			Dec	12 12 24	12 21 29
1279.	JAN	14 9 58	14 6 40				
	FEB	12 22 42	12 17 59	1282.	JAN	11 1 8	11 12 52
13 17 29	MAR	§ 14 11 27	14 5 52	D.	FEB	9 13 52	10 1 48
	. 0	29 5 49	29 19 23	13 10 56	MAR	11 2 37	11 12 19
4.	APRIL	13 0 11	12 18 36		APRIL	9 15 21	9 20 52
	MAY.	12 12 55	12 8 27		MAY .	9 4 5	9 4 13
	JUNE.	11 1 39	10 23 17		June .	7 16 49	7 11 21
	July.	10 14 23	10 14 44		JULY.	7 5 88	6 19 19
	Aug	9 3 7	963		Aug	5 18 17	5 5 15
1	SEPT	7 15 51	7 20 45		SEPT	4 7 1	8 17 55
	0	{22 10 13	21 20 43		Oct	3 19 45	3 9 36
	Ост	7 4 35	7 10 29		Nov	2 8 29	2 3 45
]	Nov	5 17 19	5 23 17			(1 21 18	1 23 5
	DEC	5 6 3	5 11 12		DEC	81 9 57	81 18 1
1			~			Cor A DI	OT TO T
		i	<u> </u>				

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1283.		d. h. m.	d. h. m.	A.D. 1286.		d. h. m.	d. h. m.
C.	0	(15 4 19	14 22 55	F. 1	JAN	26 13 51	26 8 6
	JAN	(29 22 41	30 11 2	March.	FEB	25 2 35	25 1 5
March. $d. h. m.$	FEB	28 11 25		18 10 11	MAR	26 15 19	26 18 20
13 16 44	Mar	80 0 9	$   \left\{     \begin{array}{cccc}       1 & 1 & 15 \\       80 & 12 & 29   \end{array}   \right. $		APRIL	25 4 8 ( 9 22 25	25 10 48 9 19 53
	APRIL	28 12 53	28 21 14		O May.	24 16 47	25 1 41
	MAY .	28 1 37	28 4 25		JUNE.	28 5 81	23 14 30
	June.	26 14 21	26 11 1		JULY.	22 18 15	28 1 25
	0	(11 8 43	11 12 4		Aug.	21 6 59	21 11 3
	July .	26 <b>3</b> 5	25 18 14		SEPT.	19 19 43	19 20 16
	Aug.	24 15 49	24 8 7			19 8 27	19 5 46
	SEPT	23 4 33	22 14 32		Oct	(8 2 49	8 1 24
	Oct.	22 17 17	22 5 2		Nov.	17 21 11	17 16 4
	Nov.	21 6 1	20 22 21		DEC.	17 9 55	17 8 22
	DEC.	20 18 45	20 17 33		DEC	1. 0 00	11 0 22
				1287.	JAN	15 22 40	15 15 47
1284.	0	§ 4 18 8	4 13 57	E.	FEB	14 11 24	14 5 16
B.A.	JAN	(19 7 30	19 13 1	13 16 0	MAR	16 0 8	15 19 49
	FEB	17 20 14	18 7 5		APRIL	∫14 12 52	14 11 12
12 22 33	MAR	18 8 58	18 22 33		0	(29 7 14	29 12 58
	APRIL	16 21 42	17 10 57		MAY .	14 1 36	14 2 56
	MAY.	16 10 26	16 20 31		June.	12 14 20	12 18 21
	JUNE.	\{\)14\ 28\ 10	15 4 16		July.	12 3 4	12 8 49
	_ 0	29 17 32	29 12 48		Aug	10 15 48	10 22 0
1	JULY.	14 11 54	14 11 10		SEPT	9 4 32	9 9 57
	Aug	18 0 88	12 18 20		Oct	8 17 16	8 21 7
	SEPT	11 13 22	11 2 49		0	(23 11 88	
	Oct.	11 2 6	10 18 22		Nov.	7 6 0	7 7 56
	Nov.	9 14 50	9 2 84 8 18 26		DEC	6 18 44	6 18 48
	DEC	9 8 84		1288.	JAN	5 7 29	5 5 86
	0	(28 21 56	24 5 19	D.C.	FEB	8 20 18	8 16 86
1285.	JAN	7 16 19	7 12 19	12 21 49	MAR	4 8 57	4 8 58
G.	FEB	6 5 8	6 7 6		APRIL	S 2 21 41	2 15 50
13 4 22	MAR	7 17 47	8 1 17		0	17 16 8	18 4 21
	APRIL	6 6 81	6 17 88	Ü	May	§ 2 10 23	2 4 50
	MAY.	5 19 15	6 7 21		MAY (	₹81 28 €	81 19 8
	JUNE .	§ 4 7 59	4 18 25		June .	80 11 58	80 10 14
1	0	19 2 21	18 16 32		JULY .	80 0 87	80 1 47
1	July .	8 20 48	4 8 25		A.ug	28 13 21	28 17 5
	Aug.	2 9 27	2 11 20	t]	SEPT	27 2 5	27 7 37
		81 22 11	81 19 10		0	<b>∫11 20 27</b>	1
	SEPT.	80 10 55	80 8 58		Oct.	26 14 49	1
	Ост.	29 23 39	29 14 5		Nov.	25 8 38	1
	Nov.	28 12 28	28 2 10	1	DEC	24 16 17	24 21 21
1	DEC	28 1 7	27 16 16	II	1	1	1.

		1	i	11	1		1
Mean	Month	Mean New	True New	Mean	Month	Mean New	True New
Vernal Equinox.	Month.	Moon.	(O Full Ecl.)	Vernal Equinox.	Month.	Moon. (O Full Ecl.)	(O Full Ecl.)
		ļ					
A.D.		d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
1289. B.	JAN	23 5 1	23 8 6	1292. F.E.	T. W	20 20 11	21 6 58
March.	Į.		25 8 6		JAN	(4 14 83	4 9 12
d. h. m. 13 3 37	FEB	21 17 45 23 6 29	21 18 4	March.	FEB	19 8 55	19 22 32
19 9 91		25 6 29	21 13 16	d. h. m.			
	APRIL MAY.	21 19 15	20 23 51	12 21 4	MAR		20 11 9
		19 20 41	19 12 6		APRIL	18 10 23 17 23 7	18 20 57
	June.	19 20 41	19 12 6		MAY .		18 4 48
	JULY .	17 22 9			JUNE.	16 11 51	16 11 26
		16 10 53			July.	16 0 85	15 18 14
	SEPT		16 10 59		O	(30 18 57	80 22 47
	Oct	15 23 37	16 3 52		Aug	14 13 19	14 2 18
	Nov	14 12 21	14 19 55		SEPT	18 2 8	12 12 21
	Dec	14 1 5	14 10 30		Oct.	12 14 47	12 1 22
					Nov	11 3 31	10 17 25
1290.	JAN	12 13 50	12 23 19		DEC	10 16 15	10 11 49
Α.	FEB	$\int 11 \ 2 \ 34$	11 10 16	1000	T	0 = 0	9 7 20
	0	25 20 56	25 22 25	1293. D.	JAN	9 5 0	8 2 11
13 9 26	MAR	12 15 18	12 <b>19 4</b> 0		FEB		9 18 59
	APRIL	11 4 2	11 3 56	13 2 53	MAR	9 6 28	8 8 50
	May .	10* 16 46	10 11 56		APRIL	7 19 12	7 19 48
	June.	9 5 30	8 20 34		MAY.	7 7 56 5 20 40	6 4 16
	JULY.	8 18 14	8 6 52		JUNE.	5 20 40 5 9 24	5 11 29
,	Aug	§ 7 6 58	6 19 36		JULY.	3 22 8	8 18 80
	0	22 1 20	22 3 19		Aug	2 10 52	2 2 20
	SEPT	5 19 42	5 10 57		SEPT	( 1 23 36	1 11 54
	Ост	5 8 26	5 4 25		Oct	31 12 20	30 28 49
	Nov	3 21 10	3 22 55		Nor	30 1 4	20 14 22
	Dec	3 9 54	3 17 6		Nov	(14 19 26	15 8 89
	1				Dag	17 1	29 7 15
1291.	T. 25	( 1 22 38	2 9 41		Dec	(29 18 48	40 1 19
1291. G.	JAN	(81 11 22	31 23 53	1294.	JAN	28 2 32	28 1 35
	FEB. O	15 5 44	<b>15</b> 0 20	c.	FEB.	26 15 16	26 20 2
13 15 15	Mar	5206	2 11 28	13 8 42	MAR.	28 4 0	28 18 18
10 10 10	MAR.	(31 12 50	31 20 47		APRIL	26 16 44	27 4 18
	APRIL	30 1 34	30 4 28		May .	26 5 28	26 16 40
	MAY.	29 14 18	29 11 26		0	( 9 28 50	9 14 22
	June.	28 3 2	27 18 48		June .	24 18 12	25 2 41
	JULY.	27 15 46	27 3 36		JULY.	24 6 56	24 11 9
	0	∫11 10 8	11 16 30		Aug.	22 19 40	22 19 6
	Aug.	<b>126 4 30</b>	25 14 51		SEPT.	21 8 24	21 8 29
	SEPT	24 17 14	24 5 8		Ост.	20 21 8	20 18 2
	Ост	24 5 58	23 22 15		Nov.	19 9 52	19 0 18
	Nov	22 18 42	22 17 18		0	(4 4 14	4 12 52
1	DEC	22 7 26	22 12 44		DEC	18 22 36	18 18 16
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Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1295.		d. h. m.	d. h. m.	A.D. 1298.		d. h. m.	d. h. m.
March.	JAN	17 11 21	17 4 17	E. March.	JAN	14 2 31	14 7 16
d. h. m.	FEB	16 0 5	15 20 22	d. h. m.	FEB	12 15 15	12 17 29
18 14 80	MAR	17 12 49	17 13 21	13 7 57	MAR	14 3 59	14 2 57
	APRIL	16 1 33	16 6 8		0	28 22 21	29 10 5
	MAY .	[15 14 17	15 21 49		APRIL	12 16 43	12 12 12
	0	(80 8 89	30 3 20		MAY .	12 5 27	11 21 59
	JUNE .	14 3 1	14 11 43		JUNE .	10 18 11	10 9 10
	July.	13 15 45	13 23 41		July.	10 6 55	9 22 17
1	Aug	12 <b>4</b> 29	12 10 5		Aug	8 19 39	8 13 23
	SEPT	10 17 13	10 19 39		SEPT	7 8 23	7 6 1
	Ост	10 5 57	10 5 10		0	22 2 45	21 19 4
	Nov	∫ 8 18 41	8 15 11		Oct	6 21 7	6 23 15
	0	23 13 3	23 14 56		Nov	5 9 51	5 16 6
	DEC	8 7 25	8 2 3		DEC	4 22 35	5 7 41
	Τ	0.00.10	0 10 10				
1296.	JAN	6 20 10	6 13 49 5 2 34	1299.	JAN	3 11 20	3 21 30
12 20 19	FEB.	5 8 54	5 2 34 5 16 17	D.	FEB	2 0 4	2 9 20
12 20 19	MAR	5 21 38		13 13 46	MAR	3 12 48	3 19 20
	APRIL MAY.	4 10 22	4 6 59 3 22 24		0 *	18 7 10	18 10 54
	DIAX.	18 17 28	18 20 16		APRIL	2 1 32	2 3 54
	JUNE.	2 11 50	2 13 59		MAY .	1 14 16	1 11 42
	OUM.	(2 0 84	2 5 1		_	31 8 0	1
	July.	31 13 18	31 19 3		JUNE.	29 15 44	29 4 58
	Aug	30 2 2	30 7 51		July.	29 4 28	28 16 24
	SEPT.	28 14 46	28 19 38		Aug	27 17 12	1
	Oct	28 8 80	28 6 50		0	11 11 34	1
1	Nov.	26 16 14	26 17 46		SEPT	25 18 40	
	DEC	26 4 58	26 4 38		Nov.	24 7 24	1
					DEC.	23 20 8	1
1297.	JAN	24 17 42	24 15 26		0.2	20 20 0	0 20
F.	Fкв	28 6 26	28 2 18	1000	T	00 0 50	22 21 18
18 2 8	MAR	24 19 10	24 13 35	1300. c.b.	JAN.	20 21 36	
	0	8 18 32	9 2 58		FEB.	21 10 20	1
	APRIL	28 7 54	23 1 44	12 19 35	MAR	19 23 4	
	MAY.	22 20 38	22 15 7		MAY,	19 11 48	1
	JUNE.	21 9 22	21 5 45		JUNE .	18 0 32	1
	July	20 22 6	20 21 15		JULY.	17 13 16	245
	Aug	19 10 50	19 12 57		Aug.	16 2 0	
	SEPT	17 28 84	18 4 12		SEPT.	14 14 44	1
	0	2 17 56	17 18 34		Oct.	14 3 28	1 1 1 1 1 1 1 1 1 1
	Oor.	16 1 18	16 7 52		Nov.	12 16 12	12
	Nov.	16 1 2 15 18 46	15 20 6		DEC.	12 4 56	
	DEC	TO 19 40	17 20 0	1		1	# 17 J. 1. 1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1301.	-	d. h. m.	d. h. m.	A.D. 1304.		d. h. m.	d. h. m.
A.	Jan	(10 17 41	11 2 5	E.D. March.	JAN	8 8 51	8 0 44
	0	25 12 3	25 7 35	d. h. m.	FEB	6 21 35	6 16 6
March.	FEB	9 6 25	9 19 4	12 18 50	MAR	7 10 19	7 8 81
d. h. m. 13 1 23	MAR	10 19 9	11 9 9		APRIL	5 28 8	6 1 18
	APRIL	9 7 53	9 20 13		MAY.	f 5 11 47	5 17 80
1	MAY.	8 20 37	9 4 48		0	120 6 9	20 8 22
	June .	7 9 21	7 11 52		June.	4 0 31	4 8 19
İ	JULY.	6 22 5	6.18 30		JULY.	3 13 15	8 21 22
	0	121 16 27	21 18 40		Aug.	f 2 1 59	2 8 41
1	Aug	5 10 49	5 1 49		AUG.	181 14 48	81 18 49
	SEPT	3 23 33	3 10 50		SEPT	30 8 27	80 4 81
	Oct	3 12 17	2 22 27		Ocr	29 16 11	29 14 26
1	Nov	2 1 1	1 13 4		0	£18 10 83	18 9 18
	D==	ſ 1 13 45	1 6 25		Nov	128 4 55	28 0 58
	DEC	31 2 29	31 1 30		DEC	27 17 89	27 12 15
	_	(14 20 52	14 22 53	1305.	JAN.	26 6 23	26 0 20
1302.	O Jan	29 15 14	29 20 49	C.	FEB.	24 19 7	24 18 16
G.	FEB.	28 3 58	28 14 42	13 0 89	MAR.	26 7 51	26 8 12
13 7 12	MAR	29 16 42	30 6 0	19 0 99	APRIL	21 20 85	24 18 2
10 . 12	APRIL	28 5 26	28 18 17		0	( 9 14 57	9 20 88
	MAY.	27 18 10	28 3 53		MAY .	24 9 19	24 9 26
	June .	26 6 54	26 11 39		JUNE .	22 22 8	28 0 49
	0	(11 1 16	10 19 14		JULY.	22 10 47	22 15 82
	JULY.	\\\ 25 19 <b>3</b> 8	25 18 45		Aug.	20 28 81	21 5 12
	Aug	24 8 22	24 2 11		SEPT	19 12 15	19 17 45
	SEPT	22 21 6	22 10 56		Ocr	19 0 59	19 5 28
1	Ост	22 9 50	21 21 43		0	f 2 19 21	298
	Nov	20 22 31	20 11 0		Nov	17 18 48	17 16 42
	DEC	20 11 18	20 2 43		DEC	17 2 27	17 8 41
	0	(4 5 40	4 14 9	1306.	JAN	15 15 12	15 14 28
1303.	JAN	$\begin{cases} 19 & 0 & 2 \end{cases}$	18 20 17	В.	FEB.	14 8 56	14 1 6
F.	FEB.	17 12 46	17 14 89	18 6 28	MAR.	15 16 40	15 11 50
13 13 1	MAR	19 1 30	19 8 29	20 0 20	APRIL	(14 5 24	18 28 18
	APRIL	17 14 14	18 0 38		0	28 28 46	29 11 48
	MAY .	17 2 58	17 14 17		MAY .	18 18 8	18 11 41
1	JUNE.	(15 15 42	16 1 28		JUNE .	12 6 52	12 1 84
	0	130 10 4	29 23 24		JULY.	11 19 86	11 16 41
	JULY.	15 4 26	<b>15 10 43</b>		Aug	10 8 20	10 8 29
	Aug	13 17 10	13 18 59		SEPT	8 21 4	9 0 18
	SEPT	12 5 54	12 8 15		Oct	8 9 48	8 15 26
	Ост	11 18 38	11 12 18		0	128 4 10	22 15 6
	Nov	10 7 22	9 22 45		Nov	6 22 32	7 5 81
	DEC	9 20 6	9 10 53		DEC	6 11 16	6 18 81
	1	· · · · · · · · · · · · · · · · · · ·	l .		1	I	1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1307.		d. h. m.	d. h. m.	A.D. 1310.		d. h. m.	d. h. m.
March.	JAN Feb	5 0 1 3 12 45	5 6 17 3 16 51	D.	JAN	$\left\{ \begin{array}{ccc} 1 & 15 & 11 \\ 31 & 3 & 55 \end{array} \right.$	1 20 46
18 12 16	MAR.	5 1 29	5 2 27	March.	Ti 0	\\ 14 \ 22 \ 17	31 14 54
20 12 10	APRIL	3 14 13	3 11 28	d. $h.$ $m.$	FEB. O	( 1 16 39	14 17 35   2 6 27
	MAY.	3 2 57	2 20 39	13 5 43	MAR	31 5 23	31 18 53
	June .	1 15 41	(1 6 50		APRIL	29 18 7	30 4 32
		(1 4 25	(30 18 49		MAY.	29 6 51	29 12 11
	July.	80 17 9	30 8 57		JUNE .	27 19 35	27 18 53
	Aug	29 5 53	29 1 1		JULY.	27 8 19	27 1 47
	SEPT	27 18 37	27 18 18		0	(11 2 41	11 5 38
	Oct.	27 7 21	27 11 44		Aug	25 21 3	25 9 56
	Nov.	25 20 5	26 4 16		SEPT.	24 9 47	23 20 16
	DEC	25 8 49	25 19 9		Ост.	23 22 31	23 9 26
	22.01		== == = = = = = = = = = = = = = = = =		Nov.	22 11 15	22 1 30
1000	JAN	23 21 33	24 7 58		DEC.	21 23 59	21 19 52
1308. G.F.	~	22 10 17	22 18 46				
	FEB	(8 4 39	8 5 47	1311.	JAN	20 12 43	20 15 10
10 10 5	MAR	22 23 1	23 3 47	O.	FEB	19 1 27	19 9 48
12 18 5	APRIL	21 11 45	21 11 41	13 11 32	MAR.	20 14 11	21 2 24
	MAY.	21 0 29	20 19 19		APRIL	19 2 55	19 16 7
†	JUNE .	19 18 18	19 3 42		MAY.	18 15 39	19 2 58
	July .	19 1 57	18 13 51		JUNE .	17 4 23	17 11 31
	Aug.	17 14 41	17 2 36		JULY.	16 17 7	16 18 58 15 2 18
	0	(198	1 11 9		Aug	15 5 51 13 18 35	15 2 18 13 10 21
	SEPT	16 8 25	15 18 8		SEPT	13 18 35	12 20 12
	Oct	15 16 9	15 11 55		Nov.	11 20 8	11 8 17
	Nov.	14 4 58	14 6 48		DEC.	11 8 47	10 22 46
	DEC.	18 17 87	14 1 16		0	26 3 9	
1309.	JAN	12 6 21	12 18 2	1312.	JAN		9 15 28
E.	FEB.	(10 19 5	11 8 12	B.A.	FEB	8 10 16	8 9 18
	0	25 18 27	25 8 9	12 17 21	MAR.	8 23 0	
12 28 54	MAR.	12 7 50	12 19 87		APRIL	7 11 44 7 0 28	
	APRIL	10 20 84	11 4 89		MAY .		
	MAY.	10 9 18	10 12 5		JUNE .	$ \begin{cases} 5 & 18 & 12 \\ 20 & 7 & 84 \end{cases} $	
	JUNE .	8 22 2	8 18 58	1	O Tryy yr	5 1 56	
	July .	8 10 46	8 2 8		JULY .	8 14 40	
	Aug.	6 28 80	6 10 57		Aug	2 8 24	
}	0	21 17 52	21 23 53		BEF1.	( 1 16 8	1.0
	SEPT	5 12 14	4 22 19		Oct.	81 4 52	1
	Ocr	5 0 58	4 12 45		Nov.	29 17 36	The second
	Nov	8 18 42	8 6 8		0	(14 11 58	1000000
	DEC	8 2 26	8 1 14		DEC.	29 6 20	
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Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon.
A.D. 1313.		d. h. m.	d. h. m.	A.D. 1316.		d. h. m.	d. 11. n.
G.	JAN	27 19 4	27 12 21	D.C.	JAN	25 10 15	25 16 6
d. $h.$ $m.$	FEB	26 7 48	26 4 2	March. $d. h. m.$	FEB	28 22 59	24 1 59
12 23 10	MAR	27 20 33	27 20 28	12 16 36	MAR	24 11 48	24 11 1
	APRIL	26 9 17	26 12 53		0	(865	8 17 12
ĺ	MAY .	25 22 1	26 4 25		APRIL	23 0 27	22 19 46
1	0	9 16 23	9 10 42		MAY.	22 13 11	22 5 8
ł	June.	124 10 45	24 18 25		JUNE.	21 1 55	20 16 0
	July.	23 23 29	24 6 44		July.	20 14 39	20 4 58
	Aug	22 12 13	22 17 38		Aug	19 8 23	18 20 18
	SEPT	21 0 57	21 3 43		SEPT	17 16 7	17 18 10
	Ост	20 13 41	20 13 43		0	ſ 2 10 29	2 8 23
1	Nov	19 2 25	19 0 4		Ocr	17 4 51	17 6 58
1	0	3 20 47	3 22 54		Nov	15 17 83	16 0 14
	DEC	18 15 9	18 11 0		Dec	15 6 19	15 16 12
1014	-	17 0 0	10.00.00				
1314. F.	JAN	17 3 53	16 22 33	1317.	JAN	18 19 8	14 6 9
	FEB	15 16 37	15 10 48	ъ.	FEB	12 7 47	12 17 52
13 4 58	MAR	17 5 21	16 23 56	12 22 25	MAR	(13 20 81	14 8 84
	APRIL.	15 18 5	15 14 1		0	28 14 58	28 17 48
	MAY .	15 6 49	15 5 0		APRIL	12 9 15	12 11 46
	June.	13 19 33	30 3 45 13 20 23		MAY.	11 21 59	11 19 15
	JULY.	13 19 33	13 11 36		JUNE.	10 10 43	10 2 59
	Aug.	11 21 1	12 2 1		July.	9. 28 27	9 12 8
	SEPT.	10 9 45	10 15 23		A.ug	8 12 11	7 28 26
	Ост	9 22 29	10 13 23		SEPT	7 0 55	6 18 88
	Nov	8 11 13	8 15 29		0	21 19 17	21 19 45
	DEC.	7 23 57	8 2 42	•	Oct	6 13 39	6 6 82
	<i>-</i> 220. •	. 200.	0 1 12		Nov.	5 2 28	5 1 11
1315.	JAN	6 12 42	6 13 35		Dec	4 15 7	4 20 12
E.	FEB.	5 1 26	5 0 7				
13 10 47	MAR	6 14 10	6 10 30	1318.	JAN.,	3 8 52	8 14 5
	APRIL	$\int 5 \ 2 \ 54$	4 21 13	Α.	FEB	1 16 86	2 5 87
	0	19 21 16	20 10 25	13 4 14	MAR	8 5 20	8 18 19
	MAY .	4 15 38	4 8 48		APRIL	1 18 4	2 4 20
	June.	3 4 22	2 21 45		MAY .	f 1 6 48	1 12 20
	July.	2 17 6	2 12 14			<b>\( \)</b> 30 19 <b>3</b> 2	80 19 14
	Aug	$\int 1 550$	1 3 51		June.	29 8 16	29 2 5
		30 18 34	30 19 57		JULY.	28 21 0	28 9 59
	SEPT	29 7 18	29 11 47		Aug	27 9 44	26 20 2
	0	$\int_{0.000}^{14} 140$	13 12 58		SEPT	25 22 28	25 8 58
	Oct	128 20 2	29 2 45	,	Oct	25 11 12	25 0 59
	Nov	27 8 46	27 16 31		Nov	28 28 56	28 19 27
	DEC	26 21 30	27 4 59		DEC	28 12 40	28 15 8
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Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean		Mean New	True New
Equinox.	22011012	(O Full Ecl.)	(O Full Ecl.)	Vernal Equinox.	Month.	Moon. (O Full Ecl.)	(O Full Ecl.)
A.D. 1319, 4.		d. h. m.	d. h. m.	A.D. 1322.		d. h. m.	d. h. m.
G.	JAN	22 1 24	22 10 3	C. March.	JAN	18 16 34	18 9 9 4
March.	0	5 19 46	5 16 10	d. h. m.	FEB	17 5 18	17 0 0
d. h. m.	FEB	(20 14 8	21 2 57	13 3 29	Mar	18 18 2	18 15 50
13 10 2	MAR.	22 2 52	22 16 53		APRIL	17 6 46	17 8 7
	APRIL	20 15 36	21 3 47		MAY.	16 19 30	17 0 3
	MAY.	20 4 20	20 12 15		June.	15 8 14	15 14 54
	June.	18 17 4	18 19 18		JULY.	14 20 58	15 4 12
	July.	18 5 48	18 2 1		Aug	13 9 42	13 15 59
	. 0	2 0 10	2 1 21		SEPT	11 22 26	12 2 40
	Aug	(16 18 32	16 9 28		Ocr	11 11 10	11 12 53
	SEPT	15 7 16	14 18 43		Nov	9 23 54	9 23 13
	Ocr.	14 20 0	14 6 31		Dec	9 12 38	9 9 55
	Nov.	18 8 44	12 21 12				
	DEC	12 21 28	12 14 30	1323.	JAN	8 1 23	7 21 6
1320.	JAN	(11 10 13	11 9 26	в.	FEB	6 14 7	6 8 48
F.E.	0	26 4 35	26 7 40	13 9 18	MAR	8 2 51	7 21 11
	FEB	9 22 57	10 4 30		APRIL	6 15 35	6 10 28
12 15 51	MAR	10 11 41	10 22 8		MAY .	6 4 19	6 0 47
ì	APRIL	9 0 25	9 13 15		0	20 22 41	21 4 6
	MAY.	8 13 9	9 1 28		June.	4 17 3	4 15 54
	JUNE .	7 1 53	7 11 6	ı	July.	4 5 47	4 7 17
	July .	6 14 37	6 19 3		Aug	2 18 31	2 22 20
	0	21 8 59	21 1 50		SEPT	1 7 15	1 12 31
	Aug	5 8 21	5 2 22		SEPT.	130 19 59	(1 141
	SEPT	8 16 5	3 10 8	!	Oct	30 8 43	(30 13 58
	Ocr	8 4 49	2 19 11		0	14 3 5	13 17 8
	Nov	1 17 33	ſ 1 6 12		Nov	28 21 27	29 1 35
	70	1 6 17	\figural 30   30		DEC	28.10 11	28 12 40
	DEC	(80 19 1	80 11 0			*	
	0	(14 18 28	14 22 55	1324.	JAN	26.22 56	26 23 16
1321,	JAN	29 7 45	29 4 12	A.G.	FEB	25.11 40	25 9 80
υ.	FEB.	27 20 30	27 22 8	12 15 7	MAR	26 0 24	25 19 42
12 21 40	MAR.	29 9 14	29 15 35		APRIL	24 13 8	24 6 20
	APRIL	27 21 58	28 7 29		0	9 7 30	9 19 9
	MAY.	27 10 42	27 21 9		MAY .	124 1 52	23 18 31
	June.	25 28 26	26 8 31	,	JUNE .	22 14 36	22 8 6
	0	(10. 17. 48	10 6 20		JULY.	22 3 20	21 23 14
	July.	25 12 10	25 18 5		Aug	20.16 4	20 15 20
	Aug	24. 0 54	21 2 44		SEPT	19 4 48	19 7 39
	SEPT	22.13 38	22 11 27		Ост	18 17 32	18 23 23
	Ост.	22. 2 22	21 20 54		0	2 11 54	1 23 28
	Nov	20.15 6	20 7 34		Nov.	17 6 16	17 14 3
	DEC	20 8 50	19 19 38	'	DEC.	16 19 0	17 3 19
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1325.	,	d. h. m.	d. h. m.	A.D. 1328.		d. h. m.	d. h. m.
, F.	JAN	15 7 44	15 15 6	C.B.	JAN	12 22 54	18 4 42
d. h. m.	FEB	13 20 28	14 1 27	Manak	FEB.	ζ11 11 88	11 22 45
12 20 55	MAR	15 9 12	15 10 40	March. d. h. m.	0	₹26 6 0	26 1 52
	APRIL	13 21 56	13 19 14	12 14 22	MAR	12 0 22	12 14 9
	MAY .	13 10 40	13 3 58		APRIL	10 18 6	11 2 27
	June .	11 23 24	11 13 48		MAY .	10 1 50	10 11 59
	July.	11 12 8	11 1 34		June .	8 14 84	8 19 86
	Aug	10 0 52	9 15 44		July .	8 8 18	8 2 21
	SEPT	8 13 36	8 8 2		Aug	56162	6 9 24
	Ост	8 2 20	8 1 44		0	21 10 24	21 12 88
	Nov	6 15 4	6 19 38		SEPT	5 4 46	4 17 46
	Dec	6 3 48	6 12 36		Ocr	4 17 80	4 4 19
1					Nov	8 6 14	2 17 87
1326.	JAN	4 16 33	5 3 44		Dec	2 18 58	2 9 41
E.	FEB	3 5 17	3 16 31			(1 7 48	1 8 58
13 2 44	MAR	(4181	5 3 6	1329.	JAN	80 20 27	80 22 55
	0	(19 12 23	19 13 0	Λ.	FEB	(00 20 21	
	APRIL	3 6 45	3 11 48		T.WO.	(1 9 11	1 17 17
	MAY .	2 19 29	2 19 21	12 20 11	MAR	80 21 55	81 9 40
	T	(1 8 13	1 2 42		APRIL	29 10 89	29 28 17
1	June .	(30 20 57	30 10 52		MAY .	23 28 28	29 10 8
	JULY.	30 9 41	29 20 59		June .	27 12 7	27 18 52
	Aug	28 22 25	28 9 47		JULY.	27 0 51	27 2 80
	0	∫12 16 47	12 19 9		Aug.	25 18 85	25 10 5
	SEPT	27 11 9	27 1 29		Sept	24 2 19	23 18 84
	Ост	26 23 53	26 19 32		Ocr.	28 15 8	28 4 40
	Nov	25 12 37	25 14 48		Nov.	22 8 47	21 16 51
	Dec	25 1 21	25 9 26		DEC.	21 16 81	21 7 18
				1330.			
1327.	JAN	23 14 5	24 2 18	G.	0	5 5 10 54	5 21 9
D.	FEB	22 2 49	22 16 23		JAN	(20 5 16	19 28 81
	0	8 21 11	8 15 53	18 2 0	FEB.	18 18 0	18 16 57
13 8 33	MAR	23 15 34	24 3 36	13 2 0	MAR	20 6 44	20 10 84
	APRIL	22 4 18	22 12 24		APRIL	18 19 28	19 8 18
	MAY.	21 17 2	21 19 38		MAY .	18 8 12	18 18 0
	June .	20 5 46	20 2 19		JUNE.	16 20 56	17 6 82
	July.	19 18 30	19 9 32		O	1 15 18	1 4 24
	Aug	18 7 14	17 18 26		JULY.	14 99 940	16 17 4
	_ 0	$\int 2 136$	2 7 23		Aug   Sept	14 22 24	15 2 17
	SEPT	(16 19 58	16 5 56		Oct.	18 11 8	18 11 5
	Oct.	16 8 42	15 20 31		NT.	12 28 52	12 20 17
	Nov	14 21 26	14 13 57			11 12 86	11 6 27
	Dec	14 10 10	14 9 12		DEC	$\begin{cases} 11 & 1 & 20 \\ 25 & 19 & 42 \end{cases}$	10 17 50
					5	(20 18 4%	26 5 88

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1331. F. March. d. h. m. 13 7 48	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT Nov	d. h. m.  9 14 4 8 2 48 9 15 32 8 4 16 7 17 0 6 5 44 21 0 6 5 18 28 4 7 12 2 19 56 2 8 40 31 21 24 30 10 8 15 4 80 29 22 52	d. h. m.  9 6 81 7 20 30 9 11 36 8 3 28 7 19 29 6 10 54 20 18 2 6 1 8 4 13 50 3 1 15 2 11 55 31 22 22 30 8 59 15 6 58 29 19 54	A.D. 1334. B. March. d. h. m. 13 1 15	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT O OCT NOV DEC	d. h. m. 6 5 14 4 17 58 6 6 42 { 4 19 26 19 13 48 4 8 10 2 20 54 { 2 9 88 31 22 22 30 11 6 28 23 50 { 13 18 12 28 12 84 27 1 18 26 14 2	d. h. m. 6 18 48 5 0 48 6 10 22 4 18 57 20 0 10 4 3 16 2 12 15 1 22 50 81 11 46 80 3 9 28 20 26 13 11 50 28 14 87 27 8 24 27 0 40
1332. E.D. 12 18 87	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV DEC	28 11 37 27 0 21 27 18 5 26 1 49 25 14 33	28 7 12 26 18 57 27 7 28 25 20 59 25 11 82 9 11 12 24 2 50 23 18 18 22 9 6 20 28 4 20 12 4 19 0 18 18 11 89	1335. A. 18 7 4	JAN FEB MAR O AURIL MAY . JUNE . JULY . AUG . SEPT O OCT Nov	25 2 47 28 15 81 25 4 15 5 8 22 37 28 16 59 28 5 48 21 18 27 21 7 11 19 19 55 18 8 89 5 8 8 1 17 21 28 16 10 7	25 14 42 24 2 17 25 11 41 9 0 54 23 19 38 28 2 44 21 10 15 20 19 18 19 6 87 17 20 58 8 4 8 17 14 5 16 9 1
1333. c. 12 19 26	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT O Nov DEC	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	1336. g.r. 12 12 58	JAN FEB MAR APBIL MAY . JUNE . JULY . AUG SEFT OCT Nov DEC	10 3 15 9 15 59 8 4 48 6 17 27 6 6 11	12 12 8 11 19 56 10 2 40 9 9 81 7 17 29 6 8 89 5 16 48 4 8 52

Mean Vernal Equinox.	Month.	Mean New Moon. (O Fuil Ecl.	True New Moon. )(O Full Ecl.	Mean Vernal Equinox,	Month.	Mean New Moon, (O Full Eql	True New Moon.
A.D. 1337.	,	d, h. m.	d. h. m.	A, D. 1340.		d. h. m	d. h. m.
E.	JAN	2 20 23	2 22 58	B.A.	JAN	80 0 18	29 17 81
	FEB	(197	1 17 54	March. d. h. m.	FEB	28 18 2	28 7 48
d. $h.$ $m.$	0	16 3 29	16 0 39	12 12 8	MAR.	29 1 46	28 28 8
12 18 41	MAR	2 21 51	3 10 40		APRIL	27 14 80	27 14 51
1		( 1 10 35	2 0 27		MAY .	27 8 14	27 6 85
	APRIL	30 23 19	( 1 11 13		JUNE .	25 15 58	25 21 29
1	MAY .	30 12 3	30 19 38		JULY .	25 4 42	25 11 7
	June .	29 0 47	29 2 42		Aug	23 17 26	28 28 24
	JULY.	28 13 31	28 9 84		SEPT.	22 6 10	22 10 40
	0	(12 7 53	12 8 4		Ocr.	21 18 54	21 21 25
	Aug.	27 2 15	26 17 17		Nov.	20 7 88	20 8 5
	SEPT.	25 14 59	25 2 46		*	19 20 22	19 18 54
	Ост.	25 3 43	24 14 44		DEC		10 10 17
	Nov.	23 16 27	28 5 27		_		
	DEC.	23 5 11	22 22 38	1341.	JAN	18 9 7	18 5 54
1000				G.	FEB	16 21 51	16 17 10
1338. D.	JAN	21 17 56	21 17 19	12 17 57	MAR	18 10 85	18 4 58
ъ.	_ 0	$\int 5 12 18$	5 16 28		APRIL	16 28 19	16 17 40
	FEB	(20 6 40	20 12 2		MAY.	[16 12 8	16 7 29
13 0 30	MAR.	21.19 25	22 5 25		0	(81 6 25	81 11 82
	APRIL	20 8 9	20 20 20		JUNE.	15 0 47	14 22 22
-	MAY .	19 20 58	20 8 84		July.	14 18 81	14 18 49
	June.	18 9 37	18 18 19		Ana	18 2 15	18 5 12
	JULY.	17 22 21	18 2 28		SEPT	11 14 59	11 19 56
	0	f 1 16 43	1 8 30		Ocr	11 8 48	11 9 48
	Aug	)16 11 5	16 10 7		Nov	ſ 9 16 27	9 22 83
	SEPT	14 23 49	14 18 14	į	0	<b>24 10 49</b>	24 1 16
'	Ост	14 12 33	14 3 37		DEC	9 5 11	9 10 28
	Nov	13 1 17	12 14 49				
	Dec	12 14 1	12 4 8	1342.	JAN	7 17 55	7 21 87
1339.	JAN	(11 2 45	10 19 17	F.	Fen.	6 6 89	6 7 58
C.	0	25 21 7	26 7 86	12 23 46	MAR.	7 19 23	7 17 46
	FEB	9 15 29	9 12 1		APRIL	6 8 7	6 8 26
13 6 19	MAR	11 4 13	11 5 26		MAY.	( 5 20 51	5 18 42
	APRIL	9 16 57	9 22 31		0	20 15 18	21 2 28
	MAY.	9 5 41	9 14 13		JUNE.	4 9 85	4 1 17
	JUNE .	7 18 25	8 8 57	İ	July.	8 22 19	8 14 41
	JULY.	779	7 15 82			(211 8	2 5 50
	0	22 1 31	21 13 20	l	Aug	81 28 47	81 22 15
'	AUG	5 19 58	6 1 29		SEPT.	80 12 81	
.	SEPT	4 8 37	4 10 38		Oct.		80 15 4
	Oct	8 21 21	8 19 46				
	Nov.	2 10 5	2 5 85		Nov.	18 19 87	18 7 56
	DEC.	(1 22 49	1 16 24		70	(28 18 59	28 22 88
		81 11 88	31 4 22	1	DEC.	28 2 48	28 12 5
		,	- I LL	<u> </u>			1

Mean Verna!	Month.	Mean New Moon.	True New	Mean Vernal	Month.	Mean New	True New
Equinox.		(O Full Ecl.)	(O Full Ecl.)	Equinox.	MOREE.	(O Full Ecl.)	Moon. (O Full Ecl.)
A.D. 1343.	T 000-004-00 <b>0000000000000</b> ga	d. h. m.	d. h. m.	A.D. 1346.	74-V-1-V-1-V-1-V-1-V-1-V-1-V-1-V-1-V-1-V-	d. h. m.	d. h. m.
March.	JAN	26 15 28	26 28 50	Α.	JAN	23 6 38	23 12 35
d. h. m.	FEB	25 4 12	<b>25</b> 9 59	March.	FEB	21 19 22	22 6 28
18 5 81	MAR.	26 16 56	26 18 47	d. h. m.	0	8 18 44	8 10 2
	APRIL.	25 5 40	25 2 55	12 28 1	MAR	23 8 6	23 21 42
	May.	21 18 24	24 11 14		APRIL	21 20 50	22 9 53
	JUNE.	28 7 8	22 20 48		MAY.	21 9 34	21 19 21
	July . Aro, .	22 19 52 21 8 86	22 8 26 20 22 87		June.	19 22 18	20 2 59
	Serr.	19 21 20	19 15 11		JULY.	19 11 2	19 9 58
	Ост.	19 10 4	19 9 17		Aug	17 28 46	17 17 10
	Nov.	17 22 48	18 3 89		SEPT	1 18 8	1 19 34
	DEC.	17 11 82	17 20 58		Δ	(16 12 30 16 1 14	16 1 48 15 12 84
					Nov.	14 13 58	14 1 57
					DEC.	14 2 42	13 17 56
1344.	JAN	16 0 17	16 12 15				20 21 00
	FER.	14 18 1	15 1 0	1347.	JAN	12 15 26	12 11 52
12 11 23	MAR	15 1 45	15 11 19	G.	FEB	11 4 10	11 6 34
	Arkii	18 14 29	18 19 42	<b>18 4</b> 50	MAR	12 16 54	13 0 37
	MAY.	18 8 18	18 2 58		APRIL	11 5 88	11 16 46
	JUNK.	11 15 57	11 10 8 10 18 8		MAY.	10 18 22	11 6 19
	Juny . Aro	9 17 25	9 4 12		June .	9 7 6	9 17 14
	Sker.	(8 6 9	7 17 5		July.	8 19 50	9 2 10
	0	28 0 81	28 8 15		Aug.	7 8 84	7 10 6
	Oct.	7 18 58	7 8 59		SEPT.	5 21 18	5 18 4
	Nov	0 7 87	6 8 18		Nov.	8 22 46	8 18 16
	DEC.	5 20 21	5 22 48		DEC.	8 11 80	8 1 80
					DAG.	2 0 15	1 15 40
1345.	JAN	4 9 5	4 17 85	1348.	JAN. O	16 18 87	17 5 47
24.	Fun	2 21 49	8 10 26	F.E.	JAM. O	81 12 59	81 7 82
12 17 12	Man	4 10 88	8 0 25		FEB		
1	. 0	(19 4 55	18 28 80	10 10 00	X.F	(1 1 48	1 0 27
	Aran	2 28 17	8 11 27	12 10 89	MAR.	(80 14 27	80 17 86
	MAY .	2 12 1	2 20 1		APRIL	29 8 11	29 9 56
	Juna.	80 18 20	80 9 44		MAY .	28 15 55	29 0 41
	July .	80 2 18	29 17 2		JUNE.	27. 4.89	27 18 24
	Aug.	28 14 57	28 2 4		_ O	11 28 1	11 11 29
	0	(12 9 19	12 14 58		JULY.	26 17 28	
	SEPT	27 8 41	26 18 42		Aug Sept	25 6 7 28 18 51	
	Our.	26 16 25	26 4 25		OCT.	28 7 85	
	Nov	25 5 9	24 21 56		Nov.	21 20 19	
	DEC	24 17 58	24 17 10		DEC.	21 9 3	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon, (c) Full Ecl.)	True New Meets -: Full Ect.
A.D. 1349.	-	d. h. m.		A.D. 1352.	Similar de la companya de la company	d. h. m.	d, h, m.
р.	-0	5 3 25		March.	JAN.	17 12 58 16 1 42	17 22 10
March.	JAN	(19 21 48		d. h. m.	FEB.	16 14 26	16 18 87
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	FEB.	18 10 32		12 9 51	MAR	15 8 10	15 2 47
12 16 27	MAR	19 23 16 18 12 0			O	(29 21 32	30 7 2
	MAY.	18 0 44	18 10 21		MAY .	11 15 51	11 10 12
	JUNE .	16 13 28	16 17 21		JUNE .	18 4 85	12 10 22
	O NE.	(1 7 50	1		July .	12 17 22	12 5 47
İ	JULY.	16 2 12	16 7 50		Ara.	11 6 6	10 18 11
	Aug.	14 14 56	14 21 1		SEPT.	9 18 30	9 10 13
	SEPT.	13 3 40	18 9 1		Oct.	9 7 81	9 8 51
	Ост.	12 16 24	12 20 15		0		28 20 20
	Nov.	11 5 8	11 7 8		Nov.	7 21 18	7 22 27
	DEC	(10 17 52	10 17 58		DEC.	7 9 2	7 16 28
	0	25 12 14	25 14 51				
				1353.	JAN.	5 21 46	ana
1350.	JAN	9 6 36	9 4 49	F.	FEB.	5 21 46 4 10 30	6 9 6 428 H
C.	FEB	7 19 20	7 15 45	12 15 48	MAR.		
12 22 16	Mar	984	9 2 59	12 10 40	Arrii.	5 23 11	4 19 89
	APRIL	7 20 48	7 14 52		O		0 7 41
	MAY .	7 9 32	7 3 51		MAY .	4 0 42	4 8 18
ŀ	June.	5 22 16	5 18 4		Junk.	2 18 26	2 10 9
	0	20 16 38	20 18 88			(2 2 10	1 17 81
	July.	5 11 0	5 9 17		Juny.		1 9 28
]	Aug	3 23 44	4 0 54		Ano		9 18 50
	SEPT	2 12 28	2 16 14		SEPT.		H 4 26
<u> </u>	Ост	$\begin{cases} 2 & 1 & 12 \\ 21 & 12 & 52 \end{cases}$	2 6 50		0		8 12 26
	Nov	(81 18 56	81 20 26		Ocr.	₹ .	7 21 45
	DEC.	30 2 40 29 15 24	80 9 0		Nov		6 16 65
	DEC.	40 10 24	29 20 86		DEC.		6 12 19
1351.	JAN	28 4 9	28 7 16			1779400	
в.	FEB	26 16 53	26 17 7	1354.	JAN	21 19 19 2	5 6 22
13 4 5	MAR	28 5 37	28 2 38	E.	FER.		8 21 44
	APRIL	26 18 21	26 12 9	12 21 82	MAR.		5 10 11
	MAY .	26 7 5	25 22 46		APRIL		8 19 49
	JUNE.	21 19 49	24 11 5		MAY .	22 23 15 2	
	JULY.	21 8 33	24 1 22		Junm .		1 10 8
	Aug	22 21 17	22 17 21	į	Juny .	20 28 48 2	
	SEPT.	21 10 1	21 10 18		Aug		9 1 6
	Oct. ,	20 22 45	21 3 17		SKPT		7 11 26
	Nov	{ 4 17 7	4 5 49		Oct	17 18 55 1	7 0 40
		19 11 29	19 19 20	1	Nov.	16 2 89 1	5 16 M
	JEU	19, 0, 18	19 9 52		DEC.		5 11 36
						1	

March. d. h. m. 13 3 20 M	AN	d. h. m.				(O ran mon)	(O Full Ecl.)
March.  d. h. m.  13 3 20 M	AN.		d. h. m.	A.D. 1358.		d. h. m.	d. h. m.
March. d. h. m. 13 3 20 M		14 4 8	14 6 55	G.	JAN	10 19 17	10 13 6
d. h. m. 13 3 20 M	EB	(12 16 52	13 1 39	d. $h.$ $m.$	FEB	9 8 1	9 1 49
	0	27 11 14	27 9 2	12 20 47	Mar	10 20 45	10 15 29
A	MAR	<b>14</b> 5 36	14 18 14		APRIL	9 9 29	969
1 ""	APRIL	12 18 20	13 7 52		MAY .	8 22 13	8 21 30
l N	LAY.	12 7 4	12 18 34		June .	7 10 57	7 13 1
J	UNE .	10 19 48	11 3 0		JULY.	6 23 41	7 4 3
J	ULY.	10 8 32	10 10 12		Aug	5 12 25	5 18 4
A	Lug	5 8 21 16	8 17 16		SEPT	4 1 9	4 6 54
	0	<b>\23 15 38</b>	23 14 56		Oct	3 13 53	3 18 45
s	SEPT	7 10 0	7 1 15		Nov	2 2 37	2 6 0
1	Ocr	6 22 44	6 11 0		n	( 1 15 21	1 16 59
N	Vov	5 11 28	4 23 7		DEC.	(31 4 5	31 3 51
D	DEC	5 0 12	4 13 49				
1356. J.	AN.	3 12 56	3 6 47	1359.	Jan	29 16 50	29 14 38
0.0	EB.	(2 1 40	2 1 6	F.	FEB.	28 5 34	28 1 25
1	0	16 20 2	17 1 1	13 2 36	MAR.	29 18 18	29 12 38
12 9 9 M	IAR	2 14 24	2 19 26	10 100	APRIL	28 7 2	28 0 45
12 0 0 10	LAN.	(1 3 8	1 12 32	1	MAY.	27 19 46	27 14 8
A	LPRIL	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				(11 14 8	11 18 57
N	MAY .	80 4 86			O June.	26 8 30	26 4 48
1	UNE .	28 17 20	29 1 29		July.	25 21 14	25 20 22
-	ULY.	28 6 4	28 9 57		Aug	24 9 58	24 12 7
"		(12 0 26	11 15 17		SEPT.	22 22 42	23 3 26
Ι Δ	O Lug	26 18 48	26 17 58		Oct	22 11 26	22 17 51
l	SEPT.	25 7 82	25 2 28		Nov.	21 0 10	21 7 10
l {	OGT.	24 20 16	24 12 10		0	( 5 18 32	5 9 26
1 1 -	Vov.	23 9 0	22 23 30		DEC	20 12 54	20 19 22
	DEC.	22 21 44	22 12 39				
105-	_			1360.	JAN	19 1 39	19 6 29
1357. J.	AN.	21 10 29	21 3 32	E.D.	FEB	17 14 23	17 16 35
	0	5 4 51	5 16 10	12 8 25	MAR.	18 3 7	18 1 56
	EB.	(19 28 18	19 19 45	12 0 20	APRIL	16 15 51	16 11 4
	MAR	21 11 57	21 12 38		MAY.	(16 4 35	15 20 51
t i	PRIL	20 0 41	20 5 20		O .	30 22 57	31 9 33
	MAY.	19 13 23	19 20 52		JUNE.	14 17 19	14 8 5
1	UNE .	18 2 9	18 10 40		July.	14 6 3	13 21 18
$  \mathbf{J}  $	nrx.	17 14 58	$     \begin{cases}       17 & 22 & 85 \\       81 & 20 & 27     \end{cases} $		Aug.	12 18 47	12 12 34
	0	1 9 15			SEPT.	11 7 31	11 5 19
	Lug	(16 3 87	16 8 59		Oct	10 20 15	10 22 39
	EPT.	14 16 21	14 18 38		Nov.	(9 8 59	9 15 32
	OCT.	14 5 5	14 4 14		0	24 3 21	23 16 30
1	Vov.	12 17 49	12 14 23		DEC	8 21 43	9 7 6
)   D	DEC	12 6 88	12 1 19				

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon, (O Full Ecl.)
A.D. 1361.		d. h. m.	d. h. m.	A.D. 1364.		d. h. m.	d. h. m.
c.	JAN	7 10 27	7 20 48	G.F.	JAN	5 1 87	5 1 7
March.	FEB	5 23 11	6 8 30	March. $d. h. m.$	FEB.	8 14 21	8 20 19
d. h. m. 12 14 13	MAR.	7 11 55	7 18 19	12 7 89	MAR	14 8 5	4 14 1
15 11 10	APRIL	6 0 39	6 2 44		O	18 21 27	1H 1H 4
	MAY.	5 13 23	5 10 29		Argu	2 15 49	8 6 6
	June .	4 2 7	3 18 29		71	1 2 4 33	2 17 10
	July.	3 14 51	3 3 49		MAY.	181 17 17	(1 2 114
1		(2 3 35	1 15 22		JUNE .	80 6 1	180 10 22
	AUG	81 16 19	31 5 40		July.	29 18 45	29 17 28
	SEPT	30 5 3	29 22 30		Aug	28 7 29	24 1 2
	Ост	29 17 47	29 16 57		n	(12 1 51	12 2 43
	Nov.	28 6 31	28 11 42		SEPT	26 20 18	26 9 %
	DEC.	27 19 15	28 5 17		Ocr	26 8 57	25 20 55
					Nov	24 21 41	24 10 22
					DEC	24 10 25	21 2 12
1362.	JAN	26 8 0	26 20 <b>3</b> 9	:		ĺ	
В.	FEB	24 20 44	25 9 17	1365.	JAN	22 28 10	22 19 49
12 20 2	MAR	26 9 28	26 19 20	E.	FEB.	21 11 51	21 14 6
	APRIL	24 22 12	25 3 26	12 13 28	MAR.	28 0 88	28 7 49
	MAY .	24 10 56	24 10 27	12 15 26	Arrit	21 18 22	21 23 41
	JUNE .	22 23 40	22 17 24		MAY.	21 2 6	21 18 14
	JULY.	22 12 24	22 1 25		JUNE .	19 14 50	20 0 18
	Aug	21 1 8	20 11 33		July .	19 8 81	19 9 81
	SEPT	19 13 52	19 0 34		Aug.	17 16 18	17 17 49
	0	$\int 4 \ 8 \ 14$	4 11 27		SEPT.	16 5 2	16 2 10
	Ост	19 2 36	18 16 39		Ocr.	15 17 46	15 11 24
	Nov	17 15 20	17 11 38		Nov.	14 6 80	18 22 0
	DEC	17 4 4	17 6 41		DEC.	18 19 14	18 10 18
					131101		1
1363.	JAN.	15 16 48	16 1 36	1000	<b>T</b>	210 7 20	12 0 7
Δ.	FEB	14 5 33	14 18 26	1366.	JAN	12 7 59	+ 111
13 1 51	MAR.	(15 18 17	16 8 17		O	10 20 49	27 14 21
	0	30 12 39	30 7 1	12 19 17	FEB	10 20 48 12 9 27	10 15 28
	APRIL	14 7 1	14 19 7	12 15 17		12 9 27 10 22 11	12 7 62
}	MAY .	13 19 45	14 3 34		APRIL MAY.	10 10 55	10 16 87
	JUNE .	12 8 29	12 10 33		JUNE .	8 28 89	9 7 20
	July .	11 21 13	11 17 13		JULY.	1	8 20 17
	Aug	10 9 57	10 0 38		O O	8 12 28 28 6 45	22 18 40
1	SEPT	8 22 41	8 9 50		Avg.	7 1 7	7 7 84
	0	$(23\ 17\ 3)$	23 22 40		SEPT.	5 18 51	5 17 47
	Oct	8 11 25	7 21 40		Ocr.	5 2 85	5 8 85
	Nov	7 0 9	6 12 30		X7	8 15 19	8 18 28
	DEC	6 12 53	6 6 0		DEG.	8 4 8	8 0 18
	-				1/AU	0 % 5	D V 10
<u>'</u>			1	H	1	ı	1

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1367.		d. h. m.	d. h. m.	A.D. 1370.		d. h. m.	d. h. m.
с.	Jan. O	$   \left\{     \begin{array}{cccc}       1 & 16 & 47 \\       16 & 11 & 9 \\       31 & 5 & 31     \end{array}   \right. $	1 11 31 16 21 59 30 23 35	March. d. h. m. 12 18 32	JAN Feb Mar	27 20 41 26 9 25 27 22 9	28 7 13 26 17 48 28 2 42
March. $d. h. m.$	FEB	 ( 1 18 15	1 12 29		APRIL	26 10 53	26 10 29
13 1 6	Mar	131 6 59	31 2 22		MAY.	11 5 15 25 23 37	11 13 45 25 18 4
	APRIL	29 19 43	29 17 9		JUNE.	24 12 21	24 2 30
ł	MAY.	29 8 27	29 8 31		Jury.	24 1 5	28 12 47
	JUNE.	27 21 11 (12 15 83	27 23 52 12 8 51		Aug	22 13 49	22 1 43
	July.	27 9 55	12 8 51 27 14 35		SEPT	21 2 33	20 17 27
	Aug.	25 22 39	26 4 16		Ост.	20 15 17	20 11 24
	SEPT.	24 11 23	24 16 52		Nov.	$\begin{cases} 4 & 9 & 39 \\ 19 & 4 & 1 \end{cases}$	4 5 9 1 19 6 21
	Oct.	24 0 7	24 4 40		DEC.	18 16 45	19 0 49
	Nov.	22 12 51	22 15 57		220	10 10 40	15 0 45
	DEC	22 1 35	22 2 56	1371.	JAN	17 5 30	17 17 27
		( 5 19 57	5 22 46	E.	FEB.	15 18 14	16 7 26
1368.	JAN	20 14 20	20 13 40	13 0 21	MAR.	17 6 58	17 18 38
B.A.	FEB	19 3 4	19 0 13		APRIL	(15 19 42	16 3 29
12 6 55	MAR	19 15 48	19 10 53		0	30 14 4	80 14 26
	APRIL	18 4 32	17 22 12		MAY.	15 8 26	15 10 48
	MAY.	17 17 16	17 10 40		JUNE .	18 21 10	13 17 84
	JUNE.	16 6 0	16 0 85		JULY.	18 9 54	18 0 58
	0	1 0 22	1 2 5		Aug	11 22 38	11 9 51
	July.	15 18 44	15 15 46		SEPT	10 11 22	9 21 26
	Aug	14 7 28	14 7 89		Ocr	∫10 0 6	9 12 5
	SEPT	12 20 12	12 23 32		0	24 18 28	24 20 59
	Oct	12 8 56	12 14 44		Nov	8 12 50	8 5 85
	Nov	10 21 40	11 4 53		DEC	8 1 84	8 0 51
	DEC	10 10 24	10 17 49				
1369.	JAN	8 23 9	9 5 80	1372.	JAN	6 14 18	6 20 19
G.	FEB	7 11 58	7 15 59	D.C.	FEB	5 8 2	5 14 19
12 12 44	MAR	9 0 87	9 1 27	12 6 10	Mar	5 15 46	6 5 89
	APRIL	7 18 21	7 10 22		APRIL	4 4 30	4 17 52
	MAY.	7 2 5	6 19 80		MAY.	8 17 14	4 8 20
	June.	5 14 49	5 5 48		JUNE.	2 5 58	2 10 52
	JULY.	5 3 33	4 17 48		JULY .	1 18 42	1 17 85
	Aug	3 16 17	3 8 4			31 7 26	81 0 88
	SEPT	2 5 1	2 0 18		Aug	29 20 10 28 8 54	29 8 49 27 19 22
	Oct	$\begin{bmatrix} 1 & 17 & 45 \\ 81 & 6 & 29 \end{bmatrix}$	1 17 41		SEPT Oct	28 8 54 27 21 88	27 19 22 27 8 45
			81 11 10   14 14 26		Nov.	26 10 22	26 1 0
	Nov	$\begin{bmatrix} 15 & 0 & 51 \\ 29 & 19 & 13 \end{bmatrix}$	30 8 42		DEC.	25 28 6	25 19 26
	DEC	29 7 57	29 18 31				
				1			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Mcon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (○ Full Ecl.)	True New Moon.
A.D. 1373. B. March. d. h. m. 12 11 59	Jan Feb O Mar April May .	d. h. m.  24 11 51 23 0 35  { 9 18 57 24 13 19 23 2 3 22 14 47	d. h. m.  24 14 43 23 9 34 9 17 16 25 1 37 23 15 7 23 1 48	A.D. 1376. F.E. March. d. h. m. 12 5 25	JAN FEB MAR APRIL MAY . JUNE .	d, h, m, 22 8 1 20 15 45 21 4 29 19 17 18 19 5 57 17 18 41	d. h. m. 21 21 48 20 10 1 20 23 4 19 18 8 19 4 5 17 19 27
	JUNE . JULY . AUG SEPT OCT NOV DEC	21	21 10 19 20 17 42 19 1 2 17 9 20 16 19 21 15 7 86 14 22 13		July . Aug Sept Oct Nov Dec	17 7 25 15 20 9 14 8 58 18 21 87 12 10 21 11 28 5	17 10 39 16 1 6 14 14 31 14 2 58 12 14 48 12 1 58
1374. A.	Jan Feb	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 14 53 12 8 47 27 9 29	1377. D. 12 11 14	JAN Feb Mar	10 11 50 9 0 81 10 18 18	10 12 48 8 28 15 10 9 84
12 17 48	MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	(27	27 9 29 14 2 44 12 19 32 12 10 13 10 22 32 10 8 41 8 17 31 22 22 14 7 1 57 6 10 52 4 20 52 4 8 17		APRIL MAY . JUNE . O JULY . AUG SEPT OCT Nov	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 20 12 8 7 46 6 20 46 22 2 21 6 11 18 5 8 1 8 19 12 8 11 5 2 2 6 1 15 52 15 17 41 81 4 15
1375. g. 12 23 37	JAN FEB O MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT Nov DEC.	\[ \begin{array}{c c c c c c c c c c c c c c c c c c c	8 8 21 1 19 48 1 12 0 81 8 26 29 17 22 29 5 40 12 8 40 27 16 85 26 2 45 25 12 50 23 28 16	1378. c. 12 17 8	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov O DEC	29 9 22 27 22 6 29 10 50 27 28 84 27 12 18 {11 6 40 26 1 2 25 18 46 24 2 80 22 15 14 22 8 58 20 16 42 { 5 11 4 20 5 26	29 14 15 28 1 1 29 9 55 27 18 87 27 8 58 11 16 89 25 14 58 25 4 0 28 19 24 22 12 80 22 6 20 20 28 42 5 1 10 20 15 88

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1379.		d. h. m.	d. h. m.	A.D. 1382.		d. h. m.	d. h. m.
B. March.	JAN	18 18 11	19 5 27	March.	JAN	15 9 21	15 9 2
d. h. m.	Feb	17 6 55	17 17 0	d. h. m.	FEB	13 22 5	14 3 59
12 22 52	MAR	18 19 39	19 2 32	12 16 18	MAR	(15 10 49	15 21 26
1	APRIL	17 8 28	17 10 86		0	180 5 11	30 2 0
	MAY .	∫16 21 7	16 18 0		APRIL	13 23 33	14 12 21
	0	₹81 15 29	(1 0 11		May .	13 12 17	14 0 21
	June .	15 9 51	15 i 44		June .	12 1 1	12 9 53
	July.	14 22 85	14 10 54		JULY.	11 13 45	11 17 47
	Aug	18 11 19	12 22 28	}	Aug	10 2 29	10 1 9
	SEPT	12 0 8	11 12 53		SEPT	ſ 8 15 13	8 9 3
	Ост	11 12 47	11 5 57		0	<b>123 9 35</b>	23 9 59
	Nov	10 1 31	10 0 45		Ост	8 8 57	7 18 16
	DEC	9 14 15	9 19 46		Nov	6 16 41	6 5 27
					DEC	6 5 25	5 18 53
1380.	JAN	8 8 0	8 13 33				
A.G.	FEB.	6 15 44	7 4 56	1383.	JAN	4 18 9	4 10 28
12 4 41	MAR.	7 4 28	7 17 25	D.	FEB.	3 6 53	3 3 40
	APRIL	5 17 12	6 8 15	12 22 7	MAR.	4 19 38	4 21 32
	May.	5 5 56	5 11 6		APRIL	3 8 22	3 14 50
-	June .	8 18 40	8 17 56		MAY.	2 21 6	3 6 34
	July .	8 7 24	8 0 47		100.00	1 9 50	1 20 5
1		(120 8	1 8 49		June .	30 22 34	(1 7 21
-	Aug	81 8 52	80 19 4		JULY .	30 11 18	80 16 55
	SEPT	29 21 86	29 8 18		Aug.	29 0 2	29 1 39
	0	(14 15 58	14 19 49		SEPT	27 12 46	27 10 26
,	Our.	29 10 20	29 0 27		Oct	27 1 30	26 20 2
	Nov.	27 28 4	27 19 3		Nov	25 14 14	25 6 48
	DEC.	27 11 48	27 14 40		DEC	25 2 58	24 18 58
1381.	JAN	26 0 82	26 9 84	1384.	JAN	23 15 42	23 8 30
¥.	FEB.	24 18 16	25 2 16	С.В.	0	7 10 4	7 22 45
12 10 80	MAR.	26 2 0	26 15 58		FEB	22 4 26	21 23 19
12 10 00	1	( 9 20 22	9 14 28	12 8 56	MAR.	22 17 10	22 15 7
	APRIL	24 14 44	25 2 89	12 0 00	APRIL	21 5 54	21 7 18
	MAY.	24 8 28	24 10 59		MAY.	20 18 38	20 23 9
	June .	22 16 12	22 17 59		JUNE .	19 7 22	19 13 55
	July.	22 4 56	22 0 44		July.	18 20 6	19 8 11
	Aug.	20 17 40	20 8 19	li	0	ſ 2 14 28	2 1 55
	SEPT.	19 6 24	18 17 45		Aug	17 8 50	17 14 57
		(4 0 46	4 6 27		SEPT	15 21 84	16 1 41
	Oct.	18 19 8	18 5 46		Oct.	15 10 18	15 12 0
	Nov.	17 7 52	16 20 89		Nov.	13 23 2	13 22 25
	DEC.	16 20 86	16 14 4		DEC	13 11 46	13 9 11
		2 3			1		1 '
1	1	1	1	11	1	· · · · · · · · · · · · · · · · · · ·	the second second

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (OFull Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1385.		d. h. m.	d. h. m.	A.D. 1388.		d. h. m.	d. h. m.
Α.	JAN	(12 0 30	11 20 20	March.	JAN	9 15 41	10 8 6
36 3	0	(26 18 52	27 6 4	d. h. m.	FEB	8 4 25	8 15 45
d. $h$ . $m$ .	FEB	10 13 15	10 8 1	12 3 12	MAR	8 17 9	9 2 7
12 9 45	MAR	12 1 59	11 20 20		APRIL	7 5 58	7 10 40
	APRIL	10 14 43	10 9 35		MAY.	6 18 87	6 18 7
	MAY.	10 3 27	9 23 52		0	21 12 59	21 20 21
	JUNE .	8 16 11	8 14 58		June.	5 7 21	5 1 26
	JULY.	(8 4 55	8 6 23		July.	4 20 5	4 9 41
	0	22 23 17	22 16 21		Aug	8 8 49	2 19 55
	Aug	6 17 39	6 21 25		SEPT	1 21 88	1 8 56
	SEPT	5 6 23	5 11 38			(1 10 17	1 0 50
	Oct	4 19 7	5 0 51		Oct	(80 28 1	80 19 4
	Nov	3 7 51	3 13 12		0	(14 17 28	14 18 59
1	Dec	2 20 35	3 0 51		Nov.	29 11 45	29 14 18
1 1					DEC	29 0 29	29 9 0
		(1 9 19	1 11 53				
1386.	Jan. 0	16 3 41	16 6 42	1389.	JAN	27 13 18	28 1 41
G.	_	(30 22 3	30 22 25	c.	FEB	26 1 57	26 15 81
	FEB			12 9 0	MAR	27 14 41	28 2 84
12 15 34	MAR	1 10 47	1 8 32		APRIL	26 8 25	26 11 12
		(30 23 31	30 18 40		0	(10 21 47	10 21 8
1 1	APRIL	29 12 15	29 5 26		MAY .	[25 16 9]	25 18 19
	MAY .	29 0 59	28 17 27		June.	24 4 58	24 - 0.58
	JUNE.	27 13 43	27 7 6		July.	28 17 87	23 8 18
	_ 0	(12 8 5	12 9 32		Aug	22 6 21	21 17 22
	JULY.	(27 2 27	26 22 20		SEPT	20 19 5	20 5 5
	Aug	25 15 11	25 14 32		Ocr	20 7 49	19 19 52
1 1	SEPT	24 3 55	24 6 55		0	(4 2 11	4 5 87
	Oct Nov	23 16 39	23 22 43		Nov	18 20 88	18 18 28
	DEC.	22 5 23 21 18 7	22 13 23 22 2 37		DEC	18 9 17	18 8 49
100-				1200	_		
1387.	JAN	20 6 51	20 14 18	1390. B.	JAN	16 22 2	17 4 16
	FEB	18 19 86	19 0 33		Feb	15 10 46	15 22 10
12 21 23	MAR	20 8 20	20 9 37	12 14 49	MAR	16 28 80	17 18 20
	APRIL	18 21 4	18 18 5		APRIL	§15 12 14	16 1 24
	MAY .	18 9 48	18 2 47		. 0	(80 6 86	80 0 15
	JUNE.	16 22 32	16 12 39		MAY .	15 0 58	15 10 46
	JULY.	16 11 16	16 0 33		June .	18 18 42	18 18 18
	Aug.	15 0 0	14 14 52		JULY.	18 2 26	18 1 8
	SEPT.	13 12 44	13 7 21		Aug	11 15 10	11 8 12
	Oct	13 1 28	13 1 10		SEPT	10 8 54	9 16 44
	Nov	(11 14 12	11 19 8		Ост	9 16 88	9 8 29
	DEC.	(26 8 34	25 23 9		Nov	8 5 22	7 16 59
	DEC.	11 2 56	11 12 5		DEC	7 18 6	7 9 12
·							

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 1391.		d. h. m.	d. h. m.	A.D. 1394.		d. h. m.	d. h. m.
Α.	JAN	6 6 51	6 3 27	D.	JAN	2 22 1	2 19 10
March.	FEB	4 19 35	4 22 28	d. h. m.	FEB	1 10 45	1 6 25
$\begin{vmatrix} d. & h. & m. \\ 12 & 20 & 38 \end{vmatrix}$	MAR	(6 8 19	6 16 41	12 14 4	MAR	2 23 29	2 18 6
	0	21 2 41	21 1 24		APRIL	1 12 13	f 1 6 88
	APRIL	4 21 3	5 8 52		3/7	1 0 57	(30 20 3
	MAY .	4 9 47	4 22 15		MAY .	(30 13 41	30 10 36
	June .	2 22 31	3 8 58		June .	29 2 25	29 1 54
	<b></b>	( 2 11 15	2 17 37		July.	28 15 9	28 17 19
	Jury.	31 23 59	(1 1 16		Aug	27 3 53	27 8 14
	Aug	30 12 43	80 8 57		SEPT	25 16 37	25 22 15
**	SEPT	29 1 27	28 17 35		Ocr	25 5 21	25 11 18
	Oct	28 14 11	28 3 52		Nov	23 18 5	23 23 30
	Nov	27 2 55	26 16 12		DEC	23 6 49	23 10 55
	DEC	26 15 39	26 6 89		_	01 10 00	01 01 00
				1395.	JAN	21 19 33	21 21 38
1392.	JAN	25 4 28	24 22 57	C.	FEB	20 8 17	20 7 46
G.F.	FEB	23 17 7	28 16 21	12 19 53	MAR.	21 21 1	21 17 35
	0	§ 9 11 29	9 17 49		APRIL	20 9 45	20 3 39
12 2 27	MAR	24 551	24 9 51		MAY .	19 22 29	19 14 44 18 3 24
	APRIL	22 18 35	23 2 21		JUNE .	18 11 13	18 8 24 3 9 44
	MAY .	22 7 19	22 16 59		-0	$\begin{cases} 3 & 5 & 35 \\ 17 & 23 & 57 \end{cases}$	17 17 51
	JUNE.	20 20 3	21 5 25		July .	1 20 20 22	16 9 44
	July.	20 8 47	20 15 54		Aug.		15 2 21
	Aug.	18 21 31	19 1 9		SEPT.	14 14 9	14 18 50
	0	$\begin{cases} 2 & 15 & 58 \\ 17 & 10 & 15 \end{cases}$	2 5 16		Oor.	13 2 58	
	SEPT	10 15	16 19 22		Nov.	(12 15 87	
	Oct.	16 22 59 15 11 43	15 5 89		DEC.	27 9 59	
	Nov.	15 11 45	14 17 6			(2. 0 0.	
	DEC	15 0 27	14 11 0	1396.	JAN.	. 11 4 21	11 18 8
1393.	JAN	13 13 11	13 5 50	B.A.	FEB.	9 17 6	9 28 56
E.	FEB.	(12 1 56	11 19 48	12 1 42	MAR.	10 5 50	10 9 21
	0	26 20 18	27 8 51		APRIL	8 18 84	8 17 50
12 8 16	MAR.	13 14 40	18 10 52		MAY	. 8 7 18	1
	APRIL	12 8 24	12 2 40		June	.   6 20 9	6 11 4
	MAY .	11 16 8	11 18 86		0	21 14 2	1
	JUNE .	10 4 52	10 9 58		July	l l	
	JULY.	9 17 36	10 0 8		Aug.	i i	
	Aug.	8 6 20	8 12 49		SEPT.	1	
	0	23 0 42	22 11 8	11	Ocr.	. 2 22 58	
	SEPT.	6 19 4	7 0 17		Nov.	1	
	Oct.	6 7 48	1		7	1 0 2	
	Nov.	4 20 32			DEC.	} == == ==	
	DEC.	4 9 16	4 8 13			(80 18 1	0 31 0 6
1		1				1	,

Wean Vernal Founds.  Wenn New Moon.  Moon.  (O Full Ecl.)  (O Full Ecl.)	(O Full Ecl.
A.D. A.D. A.D. A.D.	d. h. m.
1397.   W. M. M. 1400.   1400.   7   96.17. 5.	26 16 52
Morch JAN 29 1 55 25 15 50 March. The 95 5 49	25 11 29
d. h. m. 1288 . 21 12 33 22 2 2 2 4	26 4 40
12 7 31 MAR 29 5 25 25 10 00 12 00 12 15 55	9 9 50
APRIL 21 10 1 21 10 20	24 19 26
MAY . 27 4 51 21 1 20 MAY 98 90 1	24 7 27
0 10 25 15 11 000	22 17 6
JUNE . (25 11 55 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5	22 1 15
00 10 10	20 8 57
20 10 00 57	18 17 12
5.17. 4.2	8 17 28
Ocr.   21 20 31   21 13 38   Ocr.   \$ 17 19   Nov.   20 9 15   20 8 36   Ocr.   \$ 18 11 41	18 2 41
No. 10 01 10 02 0 10 No.	16 14 5
DEC. 19 21 59 20 3 52 Nov. 17 6 25 DEC. 16 18 9	16 8 28
1398. Jan 18 10 43 18 21 44	14 10 44
F. FEB 16 23 27 17 13 4 1401. JAN 15 1 58	14 18 44
12 13 20 Mar 10 12 11 15 1 25 FEB 15 14 31	18 11 27
APRIL 17 0 55 17 10 59 12 6 46 MAR. 15 8 21	15 4 47
Max . 16 13 39 16 18 40 APRIL 13 16 5	18 21 48
June 15 2 23 15 1 22 May 13 4 49	18 18 17
July . 14 15 7 14 8 18 June . 11 17 38 Aug 13 3 51 12 16 19 July . 11 6 17	12 2 51
	11 14 24 10 0 21
Reserved to the second	8 9 84 7 18 49
	6 4 45
	5 15 89
DEC. 9 6 47 9 3 1 DEC. 5 21 57	0 10 00
1899. Jan. 7 19 32 7 22 37 1402. Jan. 4 10 42	4 8 42
E. FEB 6 8 16 6 17 23 A. FEB 6 2 28 26	2 16 50
12 19 9 MAR. 7 21 0 8 9 57 0 17 17 48	18 7 8
APRIL   6 9 44 6 23 30   12 12 35   MAR 4 12 10	474
0 21 4 6 20 21 41 APRIL 3 0 54	2 22 16
MAY . 5 22 28 6 10 5 MAY . 2 18 38	2 14 1
June. 4 11 12 4 18 21	1 5 40
July . 3 23 56 4 1 26 June . 30 15 6	80 20 80
Aug. 2 12 40 2 8 21 July 80 8 50	80 10 7
Sept. \[ \begin{pmatrix} 1 & 1 & 24 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	18 9 19
	28 22 25
O   15 8 80 15 14 28   SEPT.   27 5 18	27 9 45
Oct 30 2 52 29 14 3 Oct 26 18 2	26 20 88
Nov 28 15 36 28 4 56 Nov 25 6 46	25 7 18
DEC 28 4 20 27 22 13 DEC 24 19 80	24 18 9

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1403.		d. h. m.	d. h. m.	A.D. 1406.		d. h. m.	d. h. m.
G.	JAN	23 8 1.4	23 5 6	c.	JAN	19 23 24	20 11 35
	0	7 2 36	7 14 1	March.	FEB.	18 12 8	19 0 8
March.	FEB	21 20 58	21 16 19	$egin{array}{ccccc} d. & h. & m. \\ 12 & 11 & 50 \\ \end{array}$	MAR.	20 0 52	20 10 16
d. h. m. 12 18 24	MAR	23 9 42	23 4 3		APRIL	18 13 36	18 18 29
	APRIL	21 22 26	21 16 41		MAY .	18 2 20	18 1 39
	MAY.	21 11 10	21 6 31		0	(1 20 42	2 2 58
ł	June .	19 28 54	19 21 25		June.	(16 15 4	16 8 45
1	JULY.	19 12 88	19 12 54		JULY.	16 3 48	15 16 54
1	0	1870	2 23 56		Aug	14 16 32	14 3 9
	Aug	18 1 22	18 4 19		SEPT	13 5 16	12 16 16
	SEPT	16 14 6	16 19 6		Ocr	12 18 0	12 8 23
	Ocr	16 2 50	16 8 57		Nov	∫11 6 44	11 2 51
	Nov	14 15 84	14 21 48		0	<b>1</b> 26 <b>1</b> 6	25 22 58
	DEC	14 4 18	14 9 44		DEC	10 19 28	10 22 18
1404.	JAN.	(12 17 8	12 20 49		_	0.040	0.15 0
F.E.	O AN.	27 11 25	27 14 29	1407.	JAN	9 8 13	9 17 6
	FEB	11 5 47	11 7 6	В.	FEB	7 20 57	8 9 48
12 0 13	MAR.	11 18 81	11 16 46	12 17 39	MAR.	9 9 41	9 28 33
12 0 10	APRIL	10 7 15	10 2 22		APRIL	7 22 25	8 10 22 7 18 47
	MAY.	9 19 59	9 12 36		MAY.	$\begin{cases} 7 & 11 & 9 \\ 22 & 5 & 31 \end{cases}$	22 3 38
	June .	8 8 48	8 0 14		Turn	5 23 58	6 1 47
	July .	( 7 21 27	7 18 42		June .	5 12 37	5 8 26
	0	22 15 49	22 17 4		JULY.	4 1 21	3 15 50
	Aug.	6 10 11	6 4 59		AUG SEPT	2 14 5	2 1 2
	SEPT	4 22 55	4 21 31		DEP1.	(2 2 49	1 12 54
	Oct	4 11 89	4 14 26		Ocr	81 15 83	31 3 51
	Nov.	8 0 28	8 6 49			(15 9 55	15 14 19
	DEC	2 18 7	2 21 57		Nov.	180 4 17	29 21 80
		(1 1 52	1 11 21		DEC.	29 17 1	29 16 47
1405.	JAN	80 14 86	80 23 2				
ъ.	FEB	(00 12 00		1408،	JAN	28 5 46	28 12 7
	L'EB.	(1 8 20	1 9 0	A.G.	FEB	26 18 30	27 5 51
12 6 2	Man.	80 16 4	80 17 41	11 23 28	MAR.	27 7 14	27 20 52
	APRIL	25 4 48	29 1 48		APRIL	25 19 58	26 8 49
	MAY.	28 17 82	28 10 2		0	10 14 20	اغديد ا
	June .	27 6 16	26 19 88	1	MAY .	25 8 42	1
	JULY.	26 19 0	26 7 26		June .	23 21 26	24 1 42
	Aug.	25 7 44	24 21 49		JULY .	28 10 10	23 8 88
	SEPT.	28 20 28	28 14 88		Aug	21 22 54	21 16 0
	Ocr.	28 9 12	28 8 48		SEPT.	20 11 88	20 0 49 19 11 46
	Nov.	21 21 56	22 3 11	1	Oct	20 0 22	19 11 46
	0	6 16 18	6 7 56		Nov.	18 18 6 18 1 50	1.72 1.020 1.1
	DEC	21 10 40	21 20 27		DEC	18 1 50	11. 11. 21
	İ	1	1	11	1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1409. F.	Jan.	d. h. m.	d. h. m.	A.D. 1412. c.b.		d. h. m.	d. h. m.
March.	FEB.	16 14 34	16 11 24	March.	JAN	14 5 44	14 4 3
d. h. m. 12 5 17	· ·	15 3 18	15 6 2	d. h. m.	FEB	12 18 28	12 14 55
12 011	Mar	16 16 2	16 23 56	11 22 43	MAR	13 7 12	13 2 4
		(31 10 24	31 9 22		APRIL	11 19 56	11 13 54
	APRIL	15 4 46	15 15 54		MAY.	11 8 40	11 2 52
İ	MAY.	14 17 30	15 5 16		JUNE.	9 21 24	9 17 7
[	June.	13 6 14	13 16 3		JULY.	9 10 8	9 8 21
	July.	12 18 58	13 0 56		Aug	7 22 52	8 0 2
1	Aug	11 7 42	<b>1</b> 1 8 55		SEPT	6 11 36	6 15 26
	SEPT	9 20 26	9 16 59		Ост	6 0 20	6 6 5
	Ост	9 9 10	9 1 58		Nov	4 13 4	4 19 44
	Nov	7 21 54	7 12 29		DEC	4 1 48	4 8 17
	DEC	7 10 38	7 0 51				
1410.	~	F 00 00		1413.	JAN	2 14 33	2 19 52
E.	JAN	5 23 23	5 15 6	A.	FEB	1 3 17	1 6 26
į į	Fев	4 12 7	4 6 57	12 4 32	MAR.	2 16 1	2 16 11
12 11 6	MAR	6 0 51	5 23 48			(1 4 45	1 1 29
	. 0	(20 19 13	21 2 1		APRIL	80 17 29	30 11 2
	APRIL	4 13 35	4 16 51		May.	30 6 13	29 21 40
	MAY.	4 2 19	4 9 4		JUNE.	(28 18 57	28 10 4
	June.	2 15 3	2 23 41		0	13 13 19	13 17 10
	JULY.	$\int 2 347$	2 12 20		July.	28 7 41	28 0 28
		(31 16 31	31 23 10		Aug.	26 20 25	26 16 85
	Aug	30 5 15	30 8 54		SEPT,	25 9 9	25 9 40
	0	$\int 13 \ 23 \ 37$	13 12 30		Oct.	24 21 58	25 2 42
	SEPT	28 17 59	28 18 17		Nov.	23 10 37	28 18 46
	Oct	28 6 43	28 4 1		Dec.	22 23 21	28 9 14
	Nov	26 19 27	26 14 31		DEC.	22 20 21	20 9 14
	DEC	26 8 11	26 1 57			0 45 40	0 40 40
1411.	JAN.	24 20 56	94 14 99	1414	, O	6 17 43	6 10 18
D.	FEB	23 9 40	24 14 23 23 3 48	1414. G.	JAN	21 12 5	21 21 47
		(10 4 2	23 3 48 10 16 58	l (	FEB	20 0 49	20 8 28
12 16 55	O Mar	24 22 24	24 18 15	12 10 21	MAR	21 13 33	21 17 88
10 00	APRIL	23 11 8	23 9 31		APRIL	20 2 17	20 1 34
	MAY.	22 23 52	23 1 7		MAY.	19 15 1	19 9 27
1	JUNE.	21 12 36	21 16 27		JUNE.	18 3 45	17 18 9
	JULY.	21 12 36	1		O	{ 2 22 7	3 6 46
	AUG.	19 14 4			JULY.	(17 16 29	17 4 42
	0	(3 8 26	19 20 3 2 18 34		Aug	16 5 13	15 17 46
	SEPT	18 2 48			SEPT	14 17 57	14 9 29
	Oct.	17 15 32	18 8 6 17 19 24		Oct	14 6 41	14 3 18
	Nov.	16 4 16	16 6 20		Nov.	12 19 25	12 22 0
	DEC.	15 17 0	15 6 20 15 17 12		DEC.	$\begin{cases} 12 & 8 & 9 \\ 07 & 0 & 24 \end{cases}$	12 16 8
		10 11 0	10 1/ 12		0	27 2 31	26 18 36
·	-	1					

Menn Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1415.		d. h. m.	d. h. m.	A.D. 1418.		d. h. m.	d. h. m.
March.	JAN	10 20 54	11 8 32	B.	JAN	7 12 4	7 6 19
d. h. m.	FEB	9 9 38	9 22 23	March. $d. h. m.$	FEB	6 0 48	6 0 36
12 16 10	MAR	10 22 22	11 9 35	12 9 36	Mar	7 13 32	7 18 50
	APRIL	9 11 6	9 18 30		APRIL	6 2 16	6 11 45
	MAY .	8 23 50	9 1 57		0	\20 20 <b>3</b> 8	20 17 31
	June.	∫ 7 12 81	7 8 51		MAY .	5 15 0	6 2 23
	0	122 6 56	22 18 25		June.	4 3 44	4 14 27
	July .	7 1 18	6 16 18		JULY.	3 16 28	4 0 17
	Aug	5 14 2	5 1 23		A	$\int 2 \ 5 \ 12$	2 8 45
	SEPT	4 2 46	8 18 2		Aug	₹31 17 56	31 16 51
	Oct	8 15 30	3 3 46		SEPT	30 6 40	30 1 28
	Nov	2 4 14	1 21 17		0	$\int 15 \ 1 \ 2$	15 0 53
	DEC	ſ 1 16 58	1 16 31		Ост	129 19 24	29 11 20
	DEC	181 5 42	81 11 54		Nov	28 8 8	27 22 48
					Dec	27 20 52	27 12 2
1416.	JAN	29 18 27	30 5 48				
K.D.	FEB	28 7 11	28 21 2	1419.	JAN	26 9 37	26 2 56
11 21 59	MAR.	28 19 55	29 9 11	Α.	FEB	24 22 21	24 19 7
	APRIL	27 8 39	27 18 37	12 15 25	MAR	26 11 5	26 11 56
	MAY .	26 21 23	27 2 8		0	$\begin{cases} 10 & 5 & 27 \end{cases}$	10 10 5
	June.	25 10 7	25 8 48		APRIL	124 23 49	25 4 30
	July.	24 22 51	24 15 48		MAY .	24 12 33	24 19 55
	Aug.	28 11 85	22 23 59		JUNE.	23 1 17	23 9 37
	SEPT.	22 0 19	21 10 32		JULY.	22 14 1	22 21 29
	Oct	21 18 3	21 0 1		Aug	21 2 45	21 7 55
	0	1 5 7 25	5 12 48		SEPT	19 15 29	19 17 37
	Nov	20 1 47	19 16 25		Oct	19 4 13	19 3 21
	DEC	19 14 31	19 11 1		Nov	17 16 57	17 13 36
					Dec	17 5 41	17 0 35
1417.	JAN	18 8 15	18 6 88	1420.	JAN	15 18 25	15 12 23
C,	FEB	16 15 59	17 1 4	G.F.	FEB	{14 7 9	14 1 4
12 8 48	MAR	18 4 48	18 17 27		0	129 1 81	29 15 9
	APRIL.	16 17 27	17 6 52	11 21 14	MAR	14 19 53	14 14 42
	n	<i>{</i> 1 11 49	1 4 54		APRIL	13 8 37	13 5 18
	MAY.	116 6 11	16 17 28		MAY.	12 21 21	12 20 36
	June.	14 18 55	15 1 42		JUNE.	11 10 5	11 12 5
	July.	14 7 89	14 8 54		July .	10 22 49	11 3 6
	Aug	12 20 28	12 16 8		Aug.	9 11 33	9 17 6
	SEPT	11 9 7	11 0 10		_ 0	124 5 55	23 16 50
	Ocr	{10 21 51	10 10 6		SEPT	8 0 17	8 5 59
	0	125 16 18	25 22 24	1	Our.	7 13 1	7 17 58
	Nov	9 10 85	8 22 25		Nov.	6 1 45	6 5 13
	DEC	8 28 19	8 13 16		DEC	5 14 29	5 16 14
					<u> </u>		1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1421. E. March. d. h. m. 12 3 3	JAN FEB O MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC	d. h. m. 4 3 14 { 2 15 58 { 17 10 20 4 4 42 2 17 26 { 2 6 10 31 18 54 30 7 38 29 20 22 { 13 14 44 { 28 9 6 26 21 50 26 10 34 24 23 18 24 12 2	d. h. m. 4 3 6 2 13 48 17 21 51 4 0 31 2 11 40 1 23 45 31 13 9 30 3 52 29 19 30 18 7 37 28 11 20 27 2 42 26 17 9 25 6 29 24 18 39	A.D. 1424. B.A. March. d. h. m. 11 20 29	JAN FEB. MAR. : APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov O	d. h. m.  { 1 18 24	d. h. m.  2 4 46 81 19 58 81 19 58 81 18 25 80 18 16 29 2 18 28 9 9 12 9 29 26 16 7 26 0 15 21 10 83 22 23 48 22 16 5 21 10 48 6 7 50 21 6 18
1422. D. 12 8 52	JAN  O FEB  MAR  APRIL  MAY .  JUNE .  JULY .  O AUG  SEPT  OCT  NOV  DEC	23 0 47 (6 19 9 (21 13 31 23 2 15 21 14 59 21 3 43 19 16 27 19 5 11 (2 23 38) (17 17 55 16 6 39 15 19 23 14 8 7 18 20 51	28 5 40 6 22 13 21 15 37 28 0 52 21 9 57 20 19 43 19 7 1 18 20 21 8 0 40 17 11 45 16 4 40 15 22 4 14 14 59 14 6 30	1425. g. 12 2 18	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov O DEC	19 15 57 18 4 41 19 17 25 18 6 9 17 18 58 { 1 18 15 16 7 87 15 20 21 14 9 5 12 21 49 12 10 88 { 10 28 17 25 17 89 10 12 1	20 1 8 18 17 46 20 7 28 18 18 1 18 2 18 1 10 8 16 9 14 15 15 55 18 28 28 12 8 52 11 20 54 10 11 55 25 28 8 10 5 81
1423. c. 12 14 41	Jan FEB Mar APRIL May . JUNE . JULY . AUG SEPT OCT Nov	12 9 35 10 22 19 12 11 8 10 28 47 10 12 31 9 1 15 8 18 59 7 2 48 5 15 27 5 4 11 3 16 55 { 3 5 39 18 0 1	12 20 6 11 7 38 12 17 17 11 1 85 10 9 15 8 17 15 8 2 40 6 14 24 5 4 53 4 21 55 3 16 30 3 11 16 17 16 45	1426. F. 12 8 7	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV DEC	9 0 45 7 18 29 9 2 18 7 14 57 7 8 41 21 22 8 5 16 25 5 5 9 8 17 58 2 6 87 1 19 21 81 8 5 29 20 49 29 9 88	9 0 48 7 19 50 9 18 21 8 4 12 7 16 5 21 14 12 6 1 24 5 9 6 8 16 15 1 28 54 1 9 0 80 20 10 29 9 46 29 1 42

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1427. E. March. d. h. m. 12 18 56	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	d. h. m. 27 22 18 26 11 2 27 23 46 {11 18 8 26 12 30 26 1 14 24 13 58 24 2 42 22 15 26 21 4 10 20 16 54 19 5 38 18 18 22 17 7 6	d. h. m. 27 19 19 26 13 33 28 7 5 11 17 15 26 22 50 26 12 10 24 23 8 24 8 19 22 16 40 21 1 9 20 10 30 18 21 14 18 9 33 16 23 29	A.D. 1430. A. March. d. h. m. 12 7 22	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT Nov DEC	d. h. m.  24 13 28 23 2 12 24 14 56 23 3 40 22 16 24 21 5 8 20 17 52 19 6 36 { 3 0 58} 17 19 20 17 8 4 15 20 48 15 9 32	d. h. m.  24 12 52  22 23 20  24 9 55  22 21 11  22 9 40  20 23 37  20 14 52  19 6 51  2 15 39  17 22 47  17 14 3  16 4 14  15 17 7
1428. p.c. 11 19 45	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT Nov DEC	17 7 6 15 19 50 {16 8 84 81 2 56 14 21 18 14 10 2 12 22 46 12 11 80 11 0 14 { 9 12 58 24 7 20 9 1 42 7 14 26 7 8 10	16 25 29 15 14 50 16 7 9 81 10 2 14 23 48 14 15 41 18 6 19 12 19 12 11 6 80 9 16 44 28 19 58 9 2 88 7 12 46 6 23 27	1431. e. 12 18 11	JAN FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC	13 22 16 12 11 0 13 28 44 12 12 28 12 1 12 10 13 56 {10 2 40 24 21 2 8 15 24 7 4 8 6 16 52 5 5 36 4 18 20	14 4 44 12 15 4 14 0 25 12 9 5 11 18 20 10 4 35 9 16 45 25 0 36 8 7 10 6 23 33 6 17 5 5 10 38 5 3 8
1429. B. 12 1 34	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5 10 48 8 22 49 5 11 41 21 0 54 4 1 81 8 16 15 2 7 85 1 22 55 81 18 89 80 8 21 18 2 15 28 16 1 28 8 52 26 15 12 26 2 11	1432. F.E.	Jan	13 5 51 28 0 18 26 12 57 25 1 41 24 14 25	17 18 27 2 6 25 2 16 52 2 16 52 30 9 17 29 16 49 28 1 17 13 13 51 27 11 44 26 0 51 24 16 48 24 10 54 23 5 56

Mean Vernal Required:   Month   Month Required:   Month Required								
1433.   D.	Vernal	Month.	Moon.	Moon.	Vernal	Month.	Moon.	True New Moon. )(O Full Ecl.
D. JAN.   21 4 88   21 16 52   2			d. h. m.	d. h. m.			d. h. m.	d. h. m.
March.			( 6 10 15	6 3 19		JAN.	18 19 48	18 14 24
March   A			12			1	17 8 32	
Mar.   21 6 6   21 17 38     April   16 10 0   16 18 41		1	1	1			17 21 16	
APRIL 19 18 50 20 2 19		1		1	12 20 20		1	
May   19   7   84   19   9   82   June   17   20   18   17   16   16   June   17   20   18   17   16   16   June   14   11   28   14   21   24   24   26   34   34   34   34   34   34   34   3	12 0 43	1 .		1		1	į.	1
June   June   17 20 18	į					1 -	14	1
1434.   C.   C.   C.   C.   C.   C.   C.		_	1	1			1	
July   17   9   16 23 40   Aug.   12 12 56   12 16 21 Aug.   15 21 46   15 8 47   Sept.   14 10 30   13 20 34   Oct.   13 23 14   13 11 27   Nov.   12 11 58   12 5 8   Dec.   12 10 42   10 9 55   Oct.   12 11 58   12 5 8   Dec.   12 10 42   10 9 55   Oct.   10 14 24   10 9 55   Oct.   12 11 58   12 5 8   Dec.   12 10 42   12 0 28   Dec.   8 15 52   8 7 86   Oct.   12 10 42   10 9 55   Oct.   12 11 58   Oct.   12 10 42   Oct.   10 14 24   Oct.   10 14 24   Oct.   Oct.   10 14 24   Oct.   Oct.   Oct.   10 14 24   Oct.   O				i .				
Aug 15 21 46 15 8 47 Sept 14 10 80 13 20 84 Oct 13 23 14 13 11 27 Nov 12 11 58 12 5 8 Dec 12 0 42 12 0 28  1434. c. Hart 10 11 26 10 19 55 Feb 9 2 10 9 13 54 April 9 3 88 9 16 51 Max . 8 16 22 9 2 8 June . 7 5 6 7 9 35 July . 6 17 50 6 16 17 Aug 5 6 34 4 23 18 Sept 3 19 18 3 746 Oct 3 8 2 2 18 32 Nov 1 20 46 1 8 6 Oct 3 8 2 2 18 32 Nov 1 20 46 2 18 32 Nov 1 20 46 2 18 32 Nov 1 20 46 2 18 32 Nov 1 20 46 30 19 1  1435. B. Dec 27 28 43 88 88 83 12 12 27 April 28 1 11 28 14 6 Oct 3 8 2 2 18 32 Nov 29 10 59 29 14 17 Be 27 28 43 28 8 88 83 12 12 27 April 28 1 11 28 14 6 Oct 20 13 10 28 Nov 29 10 59 29 14 17 Be 27 28 43 28 8 88 83 12 12 27 April 28 1 11 28 14 6 Oct 20 10 59 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 59 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 29 14 17 April 28 1 11 28 14 6 Oct 20 10 50 20 20 20 20 20 20 20 20 20 20 20 20 20		1 _	12					
Sept.   14 10 80   13 20 34   Oct.   10 14 24   10 9 55   Oct.   13 28 14   18 11 27   Oct.   12 11 58   12 5 8   Dec.   12 0 42   12 0 28   Dec.   8 15 52   8 7 86   Dec.   12 0 42   12 0 28   Dec.   8 15 52   8 7 86   Dec.   12 0 42   12 0 28   Dec.   8 15 52   8 7 86   Dec.   12 0 42   12 0 28   Dec.   8 15 52   8 7 86   Dec.   12 0 42   12 0 28   Dec.   8 15 52   8 7 86   Dec.   12 0 42   12 0 28   Dec.   12 0 42   Dec.   12 0 42   Dec.   12 0 42   Dec.   12 0 42   Dec.   12 0 42   Dec.   13 10   Dec.   14 14   14 50   Dec.   14 14   14 50   Dec.   14 14   Dec.   14 14   Dec.   15 17 20   5 11   4 14   Dec.   14 14   Dec.   14 14   Dec.   15 18   Dec.   15 18   Dec.   15 18   Dec.   15 18   Dec.   15 18   Dec.   15 18   Dec.   D			`	1			1	
OCT. 18 28 14 13 11 27 Nov. 12 11 58 12 5 8 DEC. 12 0 42 12 0 28  1434. C. FER. 9 2 10 9 18 54 APRIL 9 3 38 9 16 51 MAY . 8 16 22 9 2 8 JULY . 6 17 50 6 16 17 AUG 5 6 34 4 23 18 SEPT. 31 9 18 3 7 46 OCT. 3 8 2 2 18 82 Nov 1 20 46 1 8 6 DEC {1 9 30 1 0 31} 30 22 14 30 19 1  1435. B. DEC {29 10 59 29 14 17 FER 27 28 48 28 8 88 MAR 29 12 27 APRIL O		1	1			_		
Nov.   12 11 58   12 5 8   Dec.			1	1 1			1.7	
Dec 12 0 42 12 0 28  Dec 12 0 42 12 0 28  Dec 12 0 42 12 0 28  Dec 8 15 52 8 7 86  Dec 5 17 20 5 11 4  12 6 38  Mar 10 14 54 11 4 50 April 9 3 38 9 16 51 May . 8 16 22 9 2 8 July . 6 17 50 6 16 17 Aug 5 6 34 4 23 18 Sept 3 19 18 8 7 46 Oct 3 8 2 2 18 32 Nov 1 20 46 1 8 6 Dec 1 20 46 1 8 6 Dec 1 20 46 1 8 6 Dec 1 20 46 1 8 6 Oct 3 8 2 2 18 32 Nov 1 20 46 1 8 6 Dec 1 20 46 1 8 6 Dec 20 13 10 28 31 15 38  1435. B. Feb 29 10 59 29 14 17 Feb 27 23 43 28 8 88  12 12 27  1436. C. Feb 29 10 59 29 14 17 April 28 1 11 28 14 6 Oct 20 13 52 28 0 37 June . 26 2 39 26 9 2 July . 25 15 28 Aug 24 4 7 8 28 28 12 24 4 7 8 8 28 8 8 8 12 12 4 May . 25 15 28 Aug 24 4 7 8 8 28 52 July . 25 15 28 Aug 24 4 7 8 8 28 52 Sept 20 19 17 21 0 12 Sept 19 8 1 19 18 39 Oct 18 20 45 19 210 Nov 17 9 29 17 18 58			i				1 '	
1434.								
C. Feb. 9 2 10 9 13 54  12 6 38 Mar. 10 14 54 11 4 50  April 9 3 38 9 16 51  May 8 16 22 9 2 8  June 7 5 6 7 9 35  July 6 17 50 6 16 17  Aug. 5 6 34 4 23 18  Sept. 3 19 18 3 7 46  Oct. 3 8 2 2 18 32  Nov. 1 20 46 1 8 6  Dec. 1 2 12 27  Mar. 29 10 59 29 14 17  Feb. 27 23 43 28 8 38  12 12 27  Mar. 29 12 27 30 0 47  April 28 1 11 28 14 6  O (12 19 33 12 12 4  May . 26 2 39 26 9 2  July 25 15 28 25 16 25  Aug. 24 4 7 28 28 28 52  Sept. 22 16 51 22 8 19  Oct. 22 5 35 21 18 31  Oct. 22 6 8 38 22 9 24 8  April 28 1 11 28 14 6  O (12 19 33 12 12 4  May . 24 5 5 24 8 9  June . 22 6 8 8 22 9 44  Aug. 20 19 17 12 10 12  Sept. 19 18 19 20 6 56  Dec. 20 7 8 19 21 41		DEC	.12 0 42	12 0 28		DEC.	8 15 52	8 7 86
C.   Feb.   9 2 10   9 18 54   F.   Feb.   5 17 20   5 11 4   12 6 38   Mar.   10 14 54   11 4 50   April   9 3 38   9 16 51   May   8 16 22   9 2 8   June   7 5 6 6 7 9 95   June   7 5 6 6 7 9 95   July   6 17 50   6 16 17   Aug.   5 6 34   4 23 18   Sept.   3 19 18   3 7 46   Oct.   3 8 2 2 18 32   Nov.   1 20 46   1 8 6   Dec.   4 19 30   1 0 31   30 22 14   30 19 1    1435.   B.   Feb.   27 28 43   28 8 88   12 12 27   April   28 1 11   28 14 6   O   (12 19 33   12 12 4   Max   24 5 5   24 18 9   June   22 17 49   June   22 17 49   June   22 17 49   June   22 17 49   June   22 17 49   June   22 17 49   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   22 18 30   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   22 18 30   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   22 17 49   June   22 18 30   June   32 35 25   June   32	1434.	Jan	10 13 26	10 19 55	1437.	JAN.	7 4 36	6 20 87
12 6 38 Mar 10 14 54 11 4 50	c.	FEB	9 2 10	9 13 54	F.	1		
APRIL 9 3 38 9 16 51 MAY . 8 16 22 9 2 8 JUNE . 7 5 6 7 9 35 JULY . 6 17 50 6 16 17 AUG 5 6 34 4 23 18 Sept 3 19 18 3 7 46 Oct 3 8 2 2 18 32 Nov 1 20 46 1 8 6 Dec \{ 1 9 30 1 0 31 \	12 6 38	MAR.	10 14 54	11 4 50	12 0 4			
MAY . 8 16 22 9 2 8  JUNE . 7 5 6 7 9 35  JULY . 6 17 50 6 16 17  AUG 5 6 34 4 23 18  SEPT 3 19 18 3 7 46  OCT 3 8 2 2 18 32  Nov 1 20 46 1 8 6  DEC {1 9 30 1 0 31} 30 22 14 30 19 1  PEB 27 23 43 28 8 38  12 12 27  MAR 29 10 59 29 14 17  FEB 27 23 43 28 8 38  12 12 27  APRIL 28 1 11 28 14 6  O {12 19 33 12 12 4}  MAY . 26 2 39 26 9 2  JULY . 25 15 23 25 16 25  AUG 24 4 7 28 28 52  SEPT 22 16 51 22 8 19  OCT 22 5 35 21 18 31  O {5 28 57 6 6 6 31}  Nov 20 6 56  DEC 20 7 3 19 21 41								
June . 7 5 6 7 9 35  July . 6 17 50 6 16 17  Aug 5 6 34 4 23 18  Sept 3 19 18 3 7 46  Oct 3 8 2 2 18 32  Nov 1 20 46 1 8 6  Dec {1 9 30 1 0 31} 30 22 14 30 19 1  Dec {1 9 30 1 0 31} 30 22 14 30 19 1  B.  1435.  B.  Feb 27 28 48 28 8 88  12 12 27  April 28 1 11 28 14 6  O {12 19 38 12 12 4}  May . {27 13 55 28 0 37}  June . 26 2 39 26 9 2  July . 25 15 28 25 16 25  Aug 24 4 7 28 28 52  Sept 22 16 51 22 8 19  Oct 22 16 51 22 8 19  Oct 22 5 35 21 18 81  O {5 28 57 6 6 6 31}  Nov {20 0 18 19}  Oct 20 7 8 19 21 41  Dec 20 7 8 19 21 41  Nov 17 9 29 17 18 58		1		i			1	
July . 6 17 50 6 16 17 Aug 5 6 34 4 23 18 Sept 3 19 18 3 7 46 Oct 3 8 2 2 18 32 Nov 1 20 46 1 8 6 Dec {1 9 30 1 0 31} 30 22 14 30 19 1 Dec {29 10 59 29 14 17} Feb 27 23 43 28 8 38 12 12 27 April 28 1 11 28 14 6 O {12 19 33 12 12 4} May . {27 13 55 28 0 37} June . 26 2 39 26 9 2 July . 25 15 23 25 16 25 Aug 24 4 7 28 28 52 Sept 22 16 51 22 8 19 Oct 22 5 35 21 18 31 O {5 28 57 6 6 6 31} Nov {20 0 18 19} Oct 20 7 8 19 21 41				1		-	•	
Aug 5 6 34 4 23 18 Sept 3 19 18 3 7 46 Oct 3 8 2 2 18 32 Nov 1 20 46 1 8 6 Dec {1 9 30 1 0 31} 30 22 14 30 19 1  1435. B. Feb 27 23 43 28 8 38 12 12 27 April 28 1 11 28 14 6 O (12 19 38 12 12 4 May . (27 13 55 28 0 37) June . 26 2 39 26 9 2 July . 25 15 23 25 16 25 Aug 24 4 7 28 28 52 Sept 22 16 51 22 8 19 Oct 22 5 35 21 18 31 O (5 28 57 6 6 6 31 Nov (20 18 19 20 6 56 Dec 20 7 8 19 21 41		<b>I</b>		- 11				
Sept.   3 19 18   3 7 46     Oct.   3 8 2 2 18 32     Nov.   1 20 46		<b>I</b>		1				
Oct 3 8 2 2 18 32 Nov 1 20 46 1 8 6 Dec {1 9 30 1 0 31 30 19 1}  1435. B. 12 12 27 April 28 1 11 28 14 6 O {12 19 38 1 21 2 4 May . 26 2 39 26 9 2 July . 25 15 28 25 16 25 Aug 24 4 7 28 28 52 Sept 22 16 51 22 8 19 Oct 22 5 35 21 18 31 O {5 28 57 6 6 6 31 Nov 20 18 19 20 6 56 Dec 20 7 8 19 21 41		1		11		JULI.		
Nov 1 20 46		_ 1		1		Aug	<b>K</b>	1
Dec \begin{cases} 1 & 9 & 30 & 1 & 0 & 31 \\ 30 & 22 & 14 & 30 & 19 & 1 \end{cases} 1 & 0 & 31 \\ 30 & 22 & 14 & 30 & 19 & 1 \end{cases} 1 & 0 & 0 & 0 \\ 22 & 14 & 30 & 19 & 1 \end{cases} 1 & 0 & 0 & 0 \\ 1485 \\ 12 & 12 & 27 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		Nov.				Supa		
1435. B. 12 12 27    1436.   29 10 59   29 14 17								1
1435. B. 12 12 27    Max		DEC	1					
1435. B. 12 12 27    Mar.   29 10 59   29 14 17			, <b></b> 1=	20 10 1		_		
B.   Feb.   27 28 48   28 8 88   MAR.   29 12 27   30 0 47   APRIL   28 1 11   28 14 6   0   (12 19 88 12 12 4 MAY   26 2 89 26 9 2 July   25 15 28   25 16 25   Aug.   24 4 7   28 28 52   28 28 52   Sept.   22 16 51   22 8 19   Oct.   22 5 85   21 18 81   O   (5 28 57 6 6 6 81 Nov.   20 18 19 20 6 56   Dec.   20 7 8 19 21 41   Nov.   17 9 29 17 18 58   Nov.   18 20 45 19 20 10   Nov.   17 9 29 17 18 58   Nov.   18 20 45 19 20 10   Nov.   17 9 29 17 18 58   Nov.   18 20 45 19 20 10   Nov.	1435.	Tim	90 10 50	00 14 17		DEC	21 18 24	27 9 80
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April 28 1 11 28 14 6  O (12 19 38 12 12 4  May . (27 13 55 28 0 87)  June . 26 2 39 26 9 2  July . 25 15 28 25 16 25  Aug 24 4 7 28 28 52  Sept 22 16 51 22 8 19  Oct 22 5 85 21 18 81  O (5 28 57 6 6 6 81)  Nov (20 18 19 20 6 56  Dec 20 7 8 19 21 41	12 12 97	1						25 21 2
O			1		E.	FEB		24 9 12
MAY . \$\begin{array}{c ccccccccccccccccccccccccccccccccccc			1		10		]	11 28 7
June. 26 2 39 26 9 2  July. 25 15 23 25 16 25  Aug. 24 4 7 28 23 52  Sept. 22 16 51 22 8 19  Oct. 22 5 35 21 18 31  O 5 28 57 6 6 6 31  Nov. 20 18 19 20 6 56  Dec. 20 7 3 19 21 41  Nav. 24 5 5 24 12 14  May. 24 5 5 5 24 18 9  June. 22 17 49 22 18 81  July. 22 6 38 22 9 44  Aug. 20 19 17 21 0 12  Sept. 19 8 1 19 18 89  Oct. 18 20 45 19 2 10  Nov. 17 9 29 17 18 58			-	- 1	12 5 53		(26 8 87	25 22 18
July . 25 15 28 25 16 25 25 16 25 24 4 7 28 28 59 22 17 49 22 18 81 20 17 18 20 18 19 20 6 56 20 7 8 19 21 41 25 16 25 20 18 21 21 21 21 21 21 21 21 21 21 21 21 21						1	24 16 21	24 12 14
Aug 24 4 7 28 28 52							24 5 5	24 8 9
Sept 22 16 51 22 8 19 Oct 22 5 85 21 18 81 O	1		- 1			JUNE .	22 17 49	22 18 81
Oct 22 5 85 21 18 81 O		I		. 11		JULY.	22 6 88	- 1
Oct 22 5 35 21 18 31 Sept 19 8 1 19 18 39 Nov 20 18 19 20 6 56 Dec 20 7 8 19 21 41 Nov 17 9 29 17 18 58		i i				Aug	20 19 17	21 0 12
Nov   20 18 19 20 6 56   DEC   20 7 3 19 21 41   Oct   18 20 45   19 2 10   Nov   17 9 29 17 18 58		j	00	- 11		SEPT	19 8 1	
DEC. 20 7 3 19 21 41 Nov 17 9 29 17 18 58			( l			Oct		
DEC. 20 7 3 19 21 41						Nov		
		~BO	40 1 3	19 21 41	1	DEC.	16 22 18	
						l		

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1439.	At the sale of programmers	d. h. m.	d. h. m.	A.D. 1442.		d. h. m.	d. h. m.
p.	JAN	15 10 58	15 12 0	G.	JAN	12 2 7	12 13 2
March.	FEB	18 23 42	13 22 28	March. $d. h. m.$	FEB	10 14 51	11 4 12
d. h. m.	0	28 18 4	(1 5 81	12 5 8	MAR.	12 8 35	12 16 28
12 11 41	MAR.	15 12 26	15 8 36		APRIL	10 16 19	11 2 7
į	APRIL	14 1 10	13 19 10		MAY .	10 5 8	10 9 50
	MAY .	18 18 54	13 6 44		June .	(81747	8 16 36
	JUNE.	12 2 98	11 19 46		0	28 12 9	28 15 59
	July.	11 15 22	11 10 28		JULY .	8 6 31	7 23 30
	Aug	10 4 6	10 2 11		Aug	6 19 15	6 7 89
	0	24 22 28	21 15 26		SEPT	5 7 59	4 18 5
	SEPT	8 16 50	8 18 26		Ост.	4 20 43	4 7 28
	Ост	8 5 84	8 10 24		Nov	3 9 27	2 28 54
	Nov	6 18 18	7 1 27		DEC	( 2 22 11	2 18 39
	DEC	6 7 2	6 15 11		0	(17 16 33	17 16 48
1440.	JAN	4 19 46	5 8 81		_	( 1 10 56	1 14 17
C.B.	FRB.	(8 8 80	8 14 24	1443.	JAN	80 23 40	81 9 4
	0	18 2 52	18 5 47	F.	FEB		
11 17 80	MAR.	8 21 14	4 0 8			(1 12 24	2 1 88
	APRIL	2 9 58	2 8 49	12 10 57	MAR	(81 1 8	81 15 2
		( 1 22 42	1 17 26		APRIL	29 13 52	80 1 82
	MAY .	81 11 26	81 2 48		MAY .	29 2 86	29 9 44
ļ	June .	80 0 10	29 18 50		0	(12 20 58	12 16 89
	July .	29 12 54	29 8 4		June .	27 15 20	27 16 40
	0	(18 7 16	18 8 19		July .	27 4 4	26 28 28
	Aug	28 1 88	27 18 88		Aug	25 16 48	25 7 12
	SEPT	26 14 22	26 11 58		SEPT	24 5 82	28 16 50
	Oct	26 8 6	26 5 48	,	Oct	28 18 16	28 5 8
	Nov	24 15 50	24 28 11		Nov	22 7 0	21 20 8
	DEC	24 4 84	24 15 2		0	§ 7 1 22	7 7 55
	~				DEC	(21 19 44	21 18 40
1441.	JAN	22 17 19	28 4 44	1444.	JAN	20 8 29	20 8 87
	FEB	21 6 8	21 16 6	E.D.	FEB	18 21 18	19 8 26
11 28 19	MAR	22 18 47	28 1 28	11 16 46	MAR	19 9 57	19 20 42
	APRIL	21 7 81	21 9 24		APRIL	17 22 41	18 11 24
	MAY.	20 20 15	20 16 44		MAY .	17 11 25	17 28 14
	JUNE.	19 8 59	19 0 80		0	§ 1 5 47	181 21 7
	Jury.	18 21 48	18 9 47		June .	16 0 9	16 8 89
	Aug	17 10 27	16 21 80		July .	15 12 58	15 16 81
	SEPT.	15 28 11	15 12 8		Aug	14 1 87	18 28 57
	Ocr	15 11 55	15 5 25		SEPT	12 14 21	12 7 58
	Nov.	14 0 89	14 0 19		Ост	12 8 5	11 17 22
1	DEC	18 18 28	18 19 21		Nov	10 15 49	10 4 48
	0	28 7 45	28 1 85		DEC	10 4 88	9 18 17
		i i	[]				

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True Now Moon. (O Full Ect.
A.D.		d. h. m.	d. h. m.	A.D. 1448.		d. h. m.	d. h. m.
1445. c.	т	8 17 17	8 9 57	G.F.	JAN	6 8 27	6 11 7
March.	JAN Feb	7 6 1	7 3 8	March. $d. h. m.$	FEB	4 21 11	4 21 85
d. h. m.	MAR.	8 18 45	8 20 53	11 16 1	MAR.	5 9 55	5 7 86
11 22 35	APRIL	7 7 29	7 14 3		APRIL	8 22 89	8 17 89
	MAY.	6 20 13	7 5 37		MAY .	8 11 23	8 4 21
	June .	5 8 57	5 19 0		JUNE .	2 0 7	1 16 24
	JULY.	4 21 41	5 6 11		_	( 1 12 51	1 6 9
	Aug.	3 10 25	3 15 44		July.	81 1 85	80 21 28
	SEPT.	1 23 9	2 0 32		Aug	29 14 19	29 18 46
		( 1 11 53	1 9 27		0	(18 8 41	12 23 40
	Oct	81 0 37	30 19 9		SEPT	128 8 8	28 6 14
	Nov	29 13 21	29 6 3		Oct	27 15 47	27 22 5
	Dec	29 2 5	28 18 16		Nov	26 4 81	26 12 45
					DEC	25 17 15	26 1 55
1446.	Jan	27 14 50	27 7 50				
В.	FEB.	26 3 34	25 22 38	1449.	JAN.	21 6 0	24 18 81
12 4 23	MAR.	27 16 18	27 14 21	E.	FEB.	22 18 44	22 28 87
12 4 20	0	(11 10 40	11 17 57	11 21 50	MAR.	24 7 28	24 8 88
	APRIL	26 5 2	26 6 28	11 11 00	APRIL	22 20 12	22 16 56
	MAY .	25 17 46	25 22 14		MAY.	22 8 56	22 1 86
	June .	24 6 30	24 12 56		JUNE.	20 21 40	20 11 82
	July.	23 19 14	24 2 9		July.	20 10 24	19 28 88
	Aug	22 7 58	22 13 56	ì	0	(4 4 48	4 8 9
	SEPT	20 20 42	21 0 44		Aug	18 28 8	18 14 2
	0	(5154	5 3 25		SEPT	17 11 52	17 6 40
	Ост	<b>\20 9 26</b>	20 11 8		Oct.	17 0 86	17 0 87
	Nov	18 22 10	18 21 38		Nov.	15 18 20	15 18 89
	DEC	18 10 54	18 8 25		DEC.	15 2 4	15 11 88
1447.	JAN	16 23 39	16 19 36	1450.	JAN	(18 14 49	14 2 27
Δ.	FEB	15 12 23	15 7 12	D.	0	28 9 11	28 2 88
12 10 12	MAR.,	(17 1 7	16 19 28		FEB	12 8 88	12 14 56
	0	(31 19 29	(1842	12 3 39	MAR.	18 16 17	14 1 8
	APRIL	15 13 51	15 840	5 50	APRIL	12 5 1	12 9 80
	MAY .	15 2 35	14 22 56		MAY .	11 17 45	11 16 52
	June .	13 15 19	13 14 4		JUNE .	10 6 29	10 0 9
	JULY.	13 4 3	13 5 27	1	JULY.	( 9 19 18	9 8 28
	Aug	11 16 47	11 20 12		0	24 18 85	24 20 57
	SEPT	∫10 5 81	10 10 47		Aug.	8 7 57	7 18 58
	0	24 23 53	24 10 6		SEPT.	6 20 41	6 8 6
	Ост	9 18 15	10 0 4		Oct.	6 9 25	6 0 18
	Nov.	8 6 59	8 12 27		Nov.	4 22 9	4 18 87
	DEC	7 19 43	8 0 5	]	DEC.	4 10 58	4 18 55
			1	}		- 20 1/0	- 10 00
					1	1	1

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Mean Vernal Equinox.	Month.	Moan New Moon. (O Full Ecl.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.
A.D. 1451.		d. h. m.	d. h. m.	A.D. 1454.		d. h. m.	d. h. m.
C.	JAN	2 23 37	3 8 32	F.	JAN	29 3 31	28 22 25
March.	0	17 17 59	17 12 1	March. $d.$ $h.$ $m.$	FEB	27 16 15	Į.
d. h. m.	FEB	1 12 21	2 1 3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MAR.	29 4 59	
12 9 28	MAR	8 1 5	3 14 54		APRIL	27 17 48	
	APRIL	1 13 49	2 1 31		0	(12 12 5	
	35	(1 2 33	1 9 59		MAY.	27 6 27	
	MAY.	30 15 17	30 17 0		JUNE .	25 19 11	
	June .	29 4 1	28 28 40		1	1	26 4 18
	0	(13 22 23	14 2 37		JULY.	25 7 55	25 14 45
	JULY.	28 16 45	28 7 6		Aug	28 20 89	24 0 1
	Aug	27 5 29	26 16 19		SEPT.	22 9 23	22 9 2
	SEPT	25 18 13	25 4 15		Ocr	21 22 7	21 18 28
	Oct.	25 6 57	24 19 16		0	$\int 5 16 29$	5 16 16
	Nov.	23 19 41			Nov	(20 10 51	20 4 51
1	DEC.	28 8 25	28 13 3		DEC	19 28 85	19 16 24
1	DEC	25 8 25	23 8 26		1		
1452.	JAN.	21 21 10	22 3 50	1455.	JAN	18 12 20	18 5 10
B.A.	FEB.	20 9 54		E.	FEB	17 1 4	16 19 6
11 15 16	MAR.		20 21 32	12 8 48	MAR	18 13 48	18 10 7
	APRIL	20 22 38	21 12 80		APRIL	17 2 32	17 1 50
	MAY .	19 11 22	20 0 21		0	( 1 20 54	2 1 16
		19 0 6	19 9 88		MAY .	16 15 16	16 17 44
	June.	17 12 50	17 16 59		JUNE .	15 4 0	15 9 1
	JULY.	17 1 31	16 23 47		July .	14 16 44	14 28 7
	Aug	15 14 18	15 7 2		Aug	18 5 28	18 11 48
	SEPT	14 8 2	13 15 48		SEPT	11 18 12	11 28 18
	Ocr	18 15 46	18 2 41		Our	11 6 56	11 10 7
	Nov	12 4 80	11 16 28		Nov.	9 19 40	9 20 44
	DEC	11 17 14	11 8 44		DEC.	9 8 24	
1453.	Υ	10 = 50	<b>40.0</b>			0 0 24	9 7 27
G.	JAN	10 5 59	10 8 8	- 4 - 0	-		
11 21 5	FEB	8 18 48	8 21 58	1456. n.c.	JAN	7 21 8	7 18 24
11 21 5	MAR	10 7 27	10 16 2		FEB.	6 9 52	6 5 36
	APRIL	8 20 11	9 7 59	11 14 82	MAR	∫ 6 22 36	6.17 18
İ	MAY .	8 8 55	8 21 18		0	21 16 58	22 6, 55
	1	28 8 17	22 19 10		APRIL	5 11 20	5 5 87
1	June .	6 21 89	7 7 46	1	MAY .	5 0 4	4 19 5
1	July.	6 10 28	6 16 23	1	June .	8 12 48	8. 9 41
	Aug	4 23 7	508		JULY.	8 1 82	8, 0, 57
ļ	SEPT	8 11 51	8 7 50		Aug.	§ 1 14 16	1 16; 24
	Oct	8 0 85	2 16 87		~	l81 8 0	81 7 22
	Nov.	1 18 19	185		SEPT	29 15 44	29 21 27
	0 1	16 7 41	16 14 42		Ocr	29 4 28	29 10 82
	DEC {	~ ~ 0	80 15 82		Nov.	27 17 12	27 22 45
!		80 14 47	80 6 16		DEC	27 5 56	27 10 9
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	1	Mean New	True New	Mean		Mean New	True New
Mean Vernal	Month.	Moon.	Moon. (O Full Ecl.)	Vernal Equinox.	Month.	Moon.	Moon.
Equinox.		(O F IIII 1101.)					- I am mon,
A.D.		d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
1457. в.	_		25 20 49	1460. F.E.	0	( 8 15 29	8 10 25
ъ.	JAN	25 18 41 24 7 25	25 20 49		JAN	128 9 51	23 21 12
March.	FEB	(11 1 47	11 13 0	March. $d. h. m.$	FEB	21 22 85	22 12 19
d. h. m. 11 20 21	O Mar	25 20 9	25 16 33	11 13 47	MAR	22 11 19	28 0 25
11 20 21	APRIL	24 8 53	24 2 35		APRIL	21 0 3	21 9 50
	MAY.	23 21 37	23 13 39		MAY .	20 12 47	20 17 22
	June .	22 10 21	22 2 23		June.	19 1 81	19 0 8
	July .	21 23 5	21 16 56		0	8 19 58	8 22 28
	Aug	20 11 49	20 8 56		JULY.	18 14 15	18 6 57
	0	(4 6 11	3 23 21		Aug	17 2 59	16 15 18
	SEPT	19 0 33	19 1 39	i	SEPT	15 15 48	15 1 47
	Oct	18 13 17	18 18 12		Ост	15 4 27	14 15 20
	Nov	17 2 1	17 9 47		Nov	18 17 11	18 7 58
	Dec	16 14 45	16 23 53		Dec	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	18 2 88 28 1 47
	_			1401		,	
1458.	JAN	15 3 29	15 12 18	1461.	JAN Feb	11 18 40 10 7 24	11 22 12
A.	FEB	13 16 14	13 23 3	11 19 36	MAR.	11 20 8	10 16 51 12 9 11
12 2 9	O	128 10 36	28 13 15	11 10 00	APRIL	10 8 52	12 9 11 10 22 82
12 2 9	MAR APRIL	15 4 58	15 8 20		May .	9 21 86	10 8 55
	MAY.	13 17 42 13 6 26	13 16 41		June .	(81020	8 17 6
	June .	11 19 10	13 0 52 11 9 53		0	28 4 42	22 28 19
	JULY.	11 7 54	10 20 42		JULY .	7 28 4	8 0 8
	Aug	9 20 38	9 9 55		Αυσ	6 11 48	6 7 7
1	0	24 15 0	24 16 6		SEPT	5 0 82	4 15 7
	Sept	8 9 22	8 1 39		Oct	4 18 16	4 0 58
	Ост.	7 22 6	7 19 15		Nov	8 2 0	2 18 20
	Nov	6 10 50	6 13 39		Dec. O	$\begin{cases} 2 & 14 & 44 \\ 17 & 9 & 6 \end{cases}$	2 4 25 17 16 47
	DEC	5 23 34	6 7 26		220.0	1	81 21 45
1,50	_				_	(1828	
1459. e.	JAN.	4 12 18	4 23 31	1462. c.	JAN	30 16 12	80 16 28
12 7 58	FEB	3 1 2	3 13 14		FEB		
4 30	MAR APRIL	4 13 46	5 0 26	12 1 25	70	(1456	1 10 52
	MAY.	8 2 30	3 9 29	12 120	MAR	180 17 40	81 8 58
		2 15 14 (1 3 58	2 17 5		APRIL	29 6 24	29 18 27
	June .	30 16 42	1 0 9 30 7 44		MAY .	28 19 8	29 6 18
	JULY.	30 5 26	30 7 44 29 16 58		_ 0	<b>12 13 80</b>	12 4 2
	Aug	28 18 10	28 4 45		June .	27 7 52	27 15 51
	SEPT	27 6 54	26 19 31		JULY .	26 20 86	26 28 59
	Ост	26 19 38	26 13 2		Aug.	25 9 20	25 7 47
	Nov	25 8 22	25 8 12		SEPT	23 22 4	28 16 8
	DEC.	24 21 6	25 3 26		Nov.	28 10 48	28 1 52
					DEC.	21 23 82 21 12 16	21 18 21 21 2 50

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1463.		d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
В.	JAN	20 1 1	19 18 10	1466.	Jan		
March. $d. h. m.$	FEB	18 13 45	18 10 52	March.	FEB.	16 16 11 15 4 55	16 20 2
12 7 14	MAR	20 2 29	20 4 6	d. h. m. 12 0 40	MAR.	16 17 39	15 6 12 16 15 47
	APRIL	18 15 13	18 20 55		APRIL	15 6 23	15 1 17
	MAY.	18 8 57	18 12 21		MAY.	14 19 7	14 11 30
	June.	16 16 41	17 1 48		June .	13 7 51	12 23 10
	JULY.	16 5 25	16 13 17		July.	12 20 35	12 12 45
	Aug	14 18 9	14 23 15		Aug	11 9 19	11 4 9
	SEPT	13 6 53	18 8 32		SEPT	(922 3	9 20 48
	Oct	12 19 87	12 17 54		0	24 16 25	24 7 49
	Nov	11 8 21	11 8 56		Ост	9 10 47	9 13 48
	DEC	10 21 5	10 14 55		Nov	7 23 31	8 6 14
					Dec	7 12 15	7 21 20
1464.	JAN	9 9 50	9 3 0				
A.G.	FEB	7 22 31	7 16 7	1467.	JAN	6 0 59	6 10 42
11 13 2	MAR	8 11 18	8 6 19	D.	FEB	4 13 43	4 22 12
	APRIL	7 0 2	6 21 27	12 6 29	MAR	6 2 27	6 8 1
	,,0	(21 18 24	22 1 44		APRIL	4 15 11	4 16 33
	MAY.	6 12 46	6 13 8		MAY.	4 3 55	4 0 29
	June. June.	5 1 80	5 4 48		JUNE.	2 16 39	2 8 48
	Aug.	8 2 58	4 19 32 3 9 8		JULY.	2 5 23	1 18 30
	SEPT.	1 15 42	1 21 27		_	(31 18 7	31 6 26
	~ · · · · ·	1 4 26	1 8 50		Aug.,	$\begin{cases} 15 & 12 & 29 \\ 80 & 6 & 51 \end{cases}$	15 15 45 29 21 0
	Oct. O	15 22 48	15 11 8		SEPT.	28 19 35	28 13 54
		(80 17 10	80 19 45		Oct.	28 8 19	28 8 16
}	Nov	29 5 54	29 6 82		Nov.	26 21 3	27 2 43
	DEC	28 18 88	28 17 28		DEC	26 9 47	26 19 55
1465.	JAN	27 7 22	27 4 19	1468.	JAN	24 22 32	25 10 55
F.	FEB	25 20 6	25 15 27	C.B.	0	8 16 54	8 10 44
11 18 51	MAR	27 8 50	27 8 7		FEB	23 11 16	23 23 17
	0	511 8 12	11 16 19	11 12 18	MAR	24 0 0	24 9 18
ĺ	APRIL	25 21 84	25 15 44		APRIL	22 12 44	22 17 17
	MAY .	25 10 18	25 5 38		MAY .	22 1 28	22 0 23
	JUNE.	23 23 2	28 20 29		June .	20 14 12	20 7 29
	JULY.	28 11 46	28 12 0		July.	20 2 56	19 15 48
	Aug Sept	22 0 80 20 18 14	22 8 27 20 18 18		0	3 21 18	4 4 5
	O O	(5 7 86	4 18 6		Aug Sept	17 4 24	18 2 9 16 15 29
	Oct.	{20 <b>1</b> 58	20 8 12	i	Oct.	16 17 8	16 15 29
	Nov.	18 14 42	18 21 4		Nov.	15 5 52	15 2 25
	DEC	18 8 26	18 9 1		DEC	14 18 36	14 21 55
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. (O Full Ecl.)
A.D.		d. h. m.	d. h. m.	A.D. 1472.		d. h. m.	d. h. m.
14:09.	JAN	(13 7 21	13 16 38	E.D.	JAN	10 22 31	10 14 80
	O O	28 1 43	27 20 39	March.	FEB.	9 11 15	9 6 21
March.	FEB.	11 20 5	12 9 9	d. h. m. 11 11 33	MAR.	9 28 59	9 28 10
d. h. m. 11 18 6	MAR.	13 8 49.	13 22 41	11 11 00	APRIL	8 12 43	8 16 5
11 10 0	APRIL	11 21 33	12 9 17		MAY.	(8 1 27	8 8 11
	MAY.	11 10 17	11 17 33		0	22 19 49	22 16 6
	JUNE .	9 23 1	10 0 29		JUNE.	6 14 11	6 22 40
	JULY.	( 9 11 45	9 7 8		JULY.	6 2 55	6 11 14
	0	24 6 7	24 9 16		Aug.	4 15 89	4 22 5
	Aug.	8 0 29	7 14 39		SEPT.	3 4 23	8 7 50
	SEPT	6 13 13	6 0 3		Ocr.	2 17 7	2 17 19
	·Oct.	6 1 57	5 12 8		001.	(1 5 51	1 3 10
	Nov.	4 14 41	4 3 16		Nov. O	16 0 18	16 0 6
	DEC	4 8 25	3 21 5		100.0	80 18 85	80 18 45
		- 0 -0	0 22 0		DEC.	80 7 19	80 1 15
1470.	JAN	(2169	2 16 23		DEC	30 113	20 1 12
G.	0	17 10 31	17 11 35		_		
	FEB	1 4 53	1 11 37	1473. c.	JAN	28 20 8	28 18 89
11 23 55	MAR	2 17 37	3 5 9		FEB	27 8 47	27 8 2
	APRIL	1 6 21	1 19 58	11 17 22	Mar April	28 21 81 27 10 15	28 17 26 27 8 88
		(30 19 5	1 7 42		0	(12 4 87	12 9 12
	MAY.	30 7 49	30 16 52		MAY .	26 22 59	27 0 18
	June.	28 20 33	29 0 23		June .	25 11 48	25 15 80
	JULY.	28 9 17	28 7 21		JULY.	25 0 27	25 5 52
	Aug	26 22 1	26 14 50		Aug	28 18 11	28 19. 5
	SEPT	25 10 45	24 23 48		SEPT.	22 1 55	22 7 10
	Nov.	24 23 29	24 10 59		Ост.	21 14 89	21 18 82
	DEC.	23 12 13 23 0 57	23 0 44		0	(591	4 28 89
	DEC	23 0 57	22 16 57		Nov.	20 8 28	20 5 88
1471.	JAN	21 13 42	21 10 57		DEC	19 16 7	19 16 26
P.	FEB	20 2 26	20 5 31				20 20 20
12 5 44	MAR	21 15 10	21 23 14	1474.	JAN	18 4 52	10 0 15
	APRIL	20 3 54	20 15 1	В.	FEB.		18 8 15
	MAY .	19 16 38	20 4 12	11 23 11	MAR.	16 17 86 18 6 20	16 14 4
	0	(3110	3 2 13		APRIL		18 1 8
	JUNE.	18 5 22	18 14 52		MAY.	16 19 4	16 12 56
	JULY.	17 18 6	17 23 43		JUNE .	16 7 48	16 1 58
	Aug	16 6 50	16 7 45		JULY.	14 20 82   14 9 16	14 16 10
	Sept	14 19 31	14 15 54		Aug.		14 7 26
	Oct	14 8 18	14 1 3		SEPT.	12 22 0	12 28 10
	Nov	(12 21 2	12 11 43		OCT.	11 10 44	11 14 40
	0	27 15 24	27 22 56		NT	9 12 12	11 5 21
	DEC.	12 9 46	12 0 12		DEC.		9 19 0
				1	-400	9 0 56	9 7 85
			!			1	İ

Mean Vernai Equinox.	Month.	Mean New Means (*) Full Ecl.)	True New M ==== ( ) Full Ecl.)	Mean Vernal Equinox,	Month.	Mean New Moon. (O Full Ecl.)	True New Moon, (O Full Ecl.)
A.D. 1475.	3 TO LOUIS AND THE PROPERTY.	d. h. m.	d. h. m.	A.D. 1478.		d. h. m.	đ. h. m.
March.	JAN.	7 13 41	7 19 5	1).	JAN	ſ 4 4 51	4 11 29
il. h. m.	Fan	6 2 25	6 5 84	March.	0	18 28 18	18 19 18
12 4 59	MAR.	f 7 15 9	7 15 12	d. h. m.	FEB	2 17 85	8 5 14
1	O	455 8 81	22 20 21	11 22 26	MAR.	4 6 19	4 20 15
	Armit	6 8 58	6 0 28	İ	Arnit.	2 19 8	8 8 11
	MAY .	5 16 37	5 9 55		MAY.	1 2 7 47	2 17 26
!	JUNK.	4 5 21	8 20 84		MARI.	181 20 81	(1 0 51
	Jun.	8 18 5	8 9 2		JUNE.	80 9 15	{80 7 80
	Ara	1 2 6 49	1 28 81		0	15 8 87	15 5 0
		481 18 18	81 15 50		July.	129 21 59	29 14 80
		15 18 55	15 7 28		Aug	28 10 48	27 22 54
	SEPT.	180 B 17	80 9 2		SEPT	26 28 27	26 9 <b>4</b> 0
	Ocr. ,	29 21 1	80 2 6		Ocr	26 12 11	25 28 22
	Nov.	28 9 45	28 18 11		Nov.	25 0 55	21 15 56
	Dgc	27 22 20	28 8 85		DEC	24 18 89	<b>24 10 8</b> 9
					O	1881	8 10 44
1476.	Jan	26 11 18	26 21 2	1479.	Јли	28 2 28	28 6 2
u.r.	Fan.	24 23 57	23 7 82	C.	FEB	21 15 7	22 0 29
1	0	(10 18 19	10 20 81	12 4 15	MAR.	28 8 51	28 16 89
11 10 48	MAR.	25 12 41	25 16 26		APRIL.	21 16 85	22 5 51
	Armi.	24 1 25	24 0 24		MAY .	21 5 19	21 16 12
	MAY .	28 14 9	28 8 18		June .	19 18 8	20 0 26
	Junk .	22 2 58	21 16 58		0	( 4 12 25	4 5 40
	July.	21 15 87	21 8 88		July .	19 6 47	19 7 87
	Ava	20 4 21	19 16 58		Aug	17 19 81	17 14 52
	o	1 8 22 48	8 28 59		BEPT	16 8 15	15 28 7
	Вкрт	18 17 5	18 8 49		Ocr	15 20 59	15 9 15
	Ocr. ,	18 5 49	18 2 46		Nov	14 9 48	18 21 45
	Nov	16 18 88	16 21 82		DEC	(18 22 27	18 12 44
	DEC	16 7 17	16 15 80		0	28 16 49	29 1 84
1				1480.	JAN	12 11 12	12 5 51
1477.	JAM. ,	14 20 2	15 7 56	11.4.	Fan.	10 28 56	11 0 5
k.	FRB.	18 8 48	18 21 86	11 10 4	MAR.	11 12 40	11 18 12
11 16 87	MAR.	14 21 80	15 8 85		APRIL	10 1 24	10 10 57
1. 10 01	APRIL	18 10 14	18 17 22		MAY .	9 14 8	10 1 28
	MAY.	12 22 58	18 0 42		June .	(8 2 52	8 18 19
	June .	11 11 42	11 7 84		0	22 21 14	22 10 58
	July.	11 0 28	10 15 4		July .	7 15 86	7 28 5
	Aug.	9 18 10	9 0 17		Avo	8 4 20	6 7 81
!	SEPT.	8 1 54	7 12 9		Supt	4 17 4	4 15 44
	Ocr	7 14 88	7 8 7		Ocr	4 5 48	4 0 80
	Nov.	6 8 22	5 20 49		Nov	2 18 82	2 10 80
	Dac.	5 16 6	5 16 8		Due	( 2 7 16	1 23 6
					Dxc	81 20 0	81 11 24

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.
A.D. 1481.		d. h. m.	d. h. m.	A.D. 1484.		d. h. m.	d. h. m.
G.	JAN	30 8 44	30 2 20	D.C.	JAN	27 28 54	28 4 51
March.	FEB	28 21 28	28 18 28	March. $d. h. m.$	FEB	26 12 88	26 14 40
11 15 52	MAR	30 10 12	30 11 12	<b>11 9 1</b> 9	MAR.	27 1 22	26 28 47
	APRIL	28 22 56	29 3 38		APRIL	25 14 6	25 8 49
1	MAY.	28 11 40	28 18 57		MAY.	25 2 50	24 18 84
	June.	27 0 24	27 8 33		June.	28 15 84	28 5 55
	July.	26 13 8	26 20 23		JULY.	23 4 18	22 19 28
	Aug	25 1 52	25 6 49		Aug	21 17 2	21 10 57
	SEPT	23 14 36	23 16 37		SEPT	20 5 46	20 8 58
	Ост	23 3 20	23 2 27	ĺ	0	5 5 0 8	4 16 8
	Nov	21 16 4	21 12 47		Oct	19 <b>18 3</b> 0	19 21 29
	Dec	21 4 48	20 23 50		Nov	18 7 14	18 14 25
					Dec	17 19 58	18 5 53
1482.	JAN	19 17 33	19 11 40				
F.	FEB	18 6 17	18 0 18	1485.	JAN	16 8 48	16 19 21
11 21 41	Mar	19 19 1	19 13 54	в.	FEB	14 21 27	15 6 46
	APRIL	18 7 45	18 4 26	11 15 8	MAR.	16 10 11	16 16 16
	0	J 3 2 7	3 9 23		APRIL	14 22 55	15 0 25
	MAY .	17 20 29	17 19 42		MAY .	14 11 89	14 8 1
	June.	16 9 13	16 11 8		June .	13 0 23	12 16 2
	JULY.	15 21 57	16 2 8		July.	12 18 7	12 1 82
	Aug	14 10 41	14 16 10		Aug	(11 1 51	10 18 26
	SEPT	12 23 25	13 5 4		0	\\ 25 20 18	25 28 28
	Oct	$\begin{cases} 12 \ 12 \ 9 \end{cases}$	12 17 2		SEPT	9 14 85	9 4 8
	. 0	27 6 31	26 18 59		Ocr	9 8 19	8 21 20
	Nov	11 0 53	11 4 26		Nov	7 16 8	7 16 8
	DEC	10 13 37	10 15 30		DEC	7 4 47	7 10 49
1483. E.	JAN	9 2 22	9 2 20	1486.	JAN.	5 17 82	6 4 16
	FEB	7 15 6	7 12 58	A.	FEB	(4 6 16	4 19 16
12 3 30	MAR	9 3 50	8 23 36			19 0 38	18 18 45
	APRIL	<i>{</i> 7 16 34	7 10 41	11 20 57	MAR.	5 19 0	6 7 80
	O M	122 10 56	22 23 49	ļ	APRIL	4 7 44	4 17 10
	MAY.	7 5 18	6 22 45		MAY .	8 20 28	4 0 59
	JUNE .	5 18 2	5 12 10		JUNE .	2 9 12	2 7 51
	JULY . Aug	5 6 46	5 2 57		T	1 21 56	1 14 50
	SEPT.	3 19 30	3 18 37		JULY.	81 10 40	80 28 4
	SEPT.	2 8 14	2 10 32		0	(15 5 2	15 11 19
	Ост. 0	1 20 58	2 1 57			29 28 24	29 9 85
	301. 0	16 15 20 31 9 42	16 2 17		SEPT	28 12 8	27 28 8
	Nov.	29 22 26	31 16 27		Oct	28 0 52	27 15 82
	DEC.	29 11 10	30 5 48		Nov.	26 13 36	26 10 19
		20 11 10	29 17 55		DEC	26 2 20	26 5 54

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1487. G.	Jan	d. h. m. 24 15 4	d. h. m. 25 0 39	A.D. 1490. c. March.	Jan	d. h. m. 21 6 14	d. h. m. 20 22 52
March.	<u> </u>	8 9 26	8 5 10	d. h. m.	FEB	19 18 58	19 14 11
d. h. m. 12 2 45	FEB.	(23 3 48	23 17 4	11 20 12	MAR	21 7 42	21 6 26
12 2 90	Mar April	24 16 32 28 5 16	25 6 27 23 16 52		APRIL	19 20 26	19 22 54
	MAY.	22 18 0	23 10 52		MAY .	19 9 10	19 14 45
	JUNE.	21 6 44	21 7 55		O June.	17 21 54	2 23 32 18 5 18
	July.	20 19 28	20 14 38		JULY.	17 10 38	18 5 18   17 18 8
	0	( 4 18 50	4 15 59		Aug.	15 23 22	16 5 27
	Aug.	19 8 12	18 22 17		SEPT.	14 12 6	14 15 44
	SEPT.	17 20 56	17 7 53		Oct.	14 0 50	14 1 43
	Ocr.	17 9 40	16 20 9		Nov.	(12 13 31	12 11 57
	Nov.	15 22 21	15 11 23		0	27 7 56	27 7 59
	DEC	15 11 8	15 5 7		DEC	12 2 18	11 22 42
1400	-	10 00 70	44 0 40				
1488. F.E.	JAN	18 23 53	14 0 18	1491.	JAN	10 15 3	10 10 3
	C	12 12 37	28 20 24 12 19 19	в.	FEB	9 3 47	8 22 3
11 8 34	FEB	18 1 21	13 12 39	12 2 1	MAR.	10 16 31	10 10 53
11 0 94	APRIL	11 14 5	12 3 16		APRIL	9 5 15	9 0 38
	MAY.	11 2 49	11 14 58		MAY .	( 8 17 59	8 15 21
	JUNE.	9 15 88	10 0 10		0	28 12 21	23 16 44
	JULY.	9 4 17	9 7 49		June .	7 6 43	7 6 39
	Aug.	7 17 1	7 15 1		JULY .	6 19 27	6 21 59
	SEPT.	6 5 45	5 22 49		Aug	5 8 11	5 12 44
	Oct.	5 18 20	5 8 5		SEPT	3 20 55	4 2 28
	Nov.	4 7 18	3 19 26		Oct	3 9 39	3 15 10
	Dec.	8 19 57	3 9 11		Nov	$\int 1 22 23$	
		(2 8 42	2 1 12		0	16 16 45	( )
1489.	JAN	81 21 26	31 18 50		DEC	$\begin{cases} 1 & 11 & 7 \\ 0.0 & 0.0 & 71 \end{cases}$	
D.	FEB	(31 21 20	01 10 00			\dagger 30 23 51	81 1 25
1		( 2 10 10	2 12 58				
11 14 23	MAR	81 22 54	(1 6 21	1492.	JAN	29 12 86	29 12 2
	APRIL	30 11 88	80 21 56	A.G.	FEB	28 1 20	27 22 25
	MAY .	80 0 22	80 11 6	11 7 50	MAR.	28 14 4	28 8 56
	0	(13 18 44	13 9 18		APRIL	27 2 48	26 20 10
	JUNE.	28 18 6	28 21 58		MAY .	26 15 82 25 4 16	26 8 88 24 22 40
	JULY .	28 1 50	28 7 7		JUNE.	25 4 16	24 22 40
	Aug	26 14 34	26 15 32		AUG.	23 5 44	23 6 8
	SEPT	25 3 18	25 0 8		SEPT.	21 18 28	21 22 4
	Oct	24 16 2	24 9 38		Oct.	21 7 12	21 18 22
	Nov	28 4 46	22 20 30		Nov.	19 19 56	20 8 38
	0	f 7 23 8	8 7 10		DEC.	19 8 40	19 16 26
	DEC	22 17. 80	22 8 54		•		
1	1	1	1	11	1	1	

,	Mesn Vernal quinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.
	A.D. 493.		d. h. m.	d. h. m.	A.D. 1496.		d. h. m.	
M	r. Iarch.	JAN	17 21 24	18 3 56	С.В.	JAN.	(15 12 34	
$\mid d.$	h. m.	FEB	16 10 8	16 14 10		0	30 6 56	
11	13 38	MAR	17 22 52	17 23 23	March. $d. h. m.$	FEB	14 1 18	14 13 8
		0	ſ 1 17 14	2 3 30	11 7 5	MAR.	14 14 2	15 4 1
		APRIL	16 11 36	16 8 7	_	APRIL	13 2 46	13 15 48
		MAY .	16 0 20	15 17 10		MAY .	12 15 30	13 10 46
ł		JUNE.	14 13 4	14 3 27		JUNE .	11 4 14	11 8 17
		JULY.	<b>14 1 4</b> 8	13 15 45		JULY.	10 16 58	10 14 57
		Aug	12 14 32	12 6 19		Aug.	9 5 42	8 22 7
		SEPT	∫11 3 16	10 22 52		SEPT	7 18 26	7 6 44
1		0	<b>\25 21 38</b>	25 15 39		Oct.	7 7 10	6 17 42
		Ocr	10 16 0	10 16 30		Nov	5 19 54	5 7 80
		Nov	9 4 44	9 10 6		DEC.	5 8 38	5  0  4
1	1	DEC	8 17 28	9 2 36			0 000	0 0 ±
					1497.	JAN	3 21 23	3 18 30
T .	194.	JAN	7 6 13	7 17 14	Α.	0	18 15 45	18 19 37
	E.	FEB	5 18 57	6 5 37		FEB	2 10 7	2 13 48
11	19 27	MAR	7 7 41	7 15 58	11 12 53	MAR	3 22 51	4 8 0
		0	$\{22 \ 2 \ 3\}$	22 3 46		APRIL	2 11 35	2 23 58
		APRIL	5 20 25	6 0 28		7.0	(2 0 19	2 13 3
		MAY .	5 9 9	5 8 3		MAY .	31 13 3	31 23 25
]	-	JUNE .	3 21 53	3 15 34		JUNE .	30 1 47	30 7 47
	l	JULY.	3 10 37	3 0 7		0	(14 20 9	14 12 17
	-	Aug.	( 1 23 21	1 10 41		July.	29 14 31	29 15 11
		ALUG.	(31 12 5	31 0 <b>1</b>		Aug	28 3 15	27 22 44
		0	(15 6 27	15 8 0	'	SEPT	26 15 59	26 7 20
l		SEPT	(30 0 49	29 16 9		Oct	26 4 48	25 17 42
}	ļ	Oct	29 13 33	29 10 25		Nov	24 17 27	24 6 17
1		Nov	28 2 17	28 5 31		Dec	24 6 11	23 21 9
ł		DEC	27 15 1	27 23 53				
		1		11		_ 0	§ 8 0 33	8 10 20
14	195.	JAN	26 3 46	26 16 15	1498. G.	JAN.	(22 18 55	22 18 58
	D.	FEB	24 16 30	25 5 50		FEB	21 7 39	21 7 41
12	1 16	MAR	26 5 14	26 16 37	11 18 42	MAR.	22 20 23	23 1 22
		APRIL	24 17 58	25 1 7		APRIL	21 9 7	21 17 49
		MAY .	24 6 42	24 8 14		MAY .	20 21 51	21 8 13
		JUNE .	22 19 26	22 14 59		June .	:	19 20 15
		JULY.	22 8 10	21 22 26		0	4 4 57	3 17 56
		Aug.	20 20 54	20 7 43				19 6 19
		SEPT.	19 9 38	18 19 44		Aug.	- â	17 15 11
		Oct	18 22 22	18 10 51	•	SEPT.	. ,	15 28 48
	1	Nov.	17. 11 6	17 4 40		Oct.		15 8 59
	ļ	DEC	16 28 50	17 0 6		Nov.	أين بسمس	18 19 15
	1	ļ				DEC.	13 14 59	18 6 58
			<u> </u>	- 11				i

Mean		Mean New	True New	25			
Vernal Equinox.	Month.	Moon. (O Full Ect.)	Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
				Equinox.		(O Full Ecl.)	(O E.nii Ect.)
A.D. 1499.		d. h. m.	d. h. m.	A.D. 1502.		d. h. m.	d. h. m.
March.	JAN	12 3 44	11 19 58	B. March.	JAN	8 18 54	9 2 47
d. h. m.	FEB	10 16 28	10 10 24	d. h. m.	Feb	7 7 38	7 13 34
12 0 31	MAR	12 5 12	12 1 58	11 17 58	MAR	8 20 22	8 23 3
	APRIL	10 17 56	10 18 9		APRIL	7 9 6	7 7 43
	MAY.	10 6 40	10 10 15		MAY.	6 21 50	6 16 16
	June.	8 19 21	9 1 30		JUNE.	5 10 31	5 1 33
	Juny.	8 8 8	8 15 20		JULY.	4 23 18	4 12 44
	Aug	6 20 52	7 8 33		Aug	3 12 2	3 2 9
	SEPT	5 9 36	5 14 32		SEPT	2 0 46	1 17 52
	Ocr	4 22 20	5 0 52			( 1 13 30	1 11 16
	Nov	8 11 4	3 11 9		Ост. О	$  \frac{16}{7}   7   52  $	16 0 35
	DEC	2 23 48	2 21 44			31 2 14	31 5 16
					Nov	29 14 58	29 22 40
1500	<b>~</b>	5 1 12 32	1 8 45		DEC	29 3 42	29 14 26
1500. E.D.	JAN	(81 1 17	30 20 17				
	FEB	29 14 1	29 8 23	1503.	JAN	27 16 27	28 4 0
11 6 20	MAR	80 2 45	29 21 21	A.	FEB	26 5 11	26 15 13
	APRIL	23 15 29	28 11 20	11 23 46	MAR.	27 17 55	28 0 23
	0	£ 18 9 51	13 16 56	1 20 10	APRIL	26 6 39	26 8 11
	MAY .	28 4 13	28 2 12		MAY.	25 19 23	25 15 28
	June .	26 16 57	26 17 34	ł	JUNE .	24 8 7	23 23 15
	JULY.	26 5 41	26 8 49		JULY.	23 20 51	23 8 39
	Aug	24 18 25	24 23 19		Aug.	22 9 35	21 20 34
	SEPT	28 7 9	23 12 49		SEPT	20 22 19	20 11 25
	Ocr	22 19 53	28 1 24		Ocr.	20 11 8	20 4 52
	0	6 14 15	6 2 59		Nov.	18 23 47	18 23 53
	Nov	(21 8 37	21 13 13		DEC	18 12 81	18 18 56
	DEC	20 21 21	21 0 28				
					<b>T</b>	17 1 15	17 12 29
1501.	JAN	19 10 5	19 11 11	1504. G.F.	JAN	15 14 0	16 3 30
c.	FEB	17 22 49	17 21 29	G.F.	FEB	(1 8 22	1 2 40
11 12 9	MAR	19 11 88	19 7 87	11 " 0"	MAR	16 2 44	16 15 33
	APRIL	18 0 17	17 18 8	11 5 85	APRIL	14 15 28	15 1 0
ļ	0	2 18 39	8 7 9		MAY .	14 4 12	14 8 35
	MAY.	(17 18 1	17 5 40		June .	12 16 56	12 15 19
	June.	16 1 45	15 18 44		JULY.	12 5 40	11 22 15
	Jury.	15 14 29	15 9 25		Aug.	(10 18 24	10 6 82
	Aug	14 8 18	14 1 20	<u> </u>	0	25 12 46	25 18 38
	SEPT.	12 15 57	12 17 41		SEPT.	9 7 8	8 17 10
	Oct	12 4 41	12 9 43		Ост.	8 19 52	8 6 48
	0	26 28 3	26 10 86		Nov.	7 8 36	6 28 25
	Nov.	10 17 25	10 14 80		DEC	6 21 20	6 18 16
	DEC	10 6 9	10 14 80				
1			:	1	}	1	I control

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl	True New Moon.		Month		True New Moon.
A.D. 1505.		d. h. m	d. h. m.	A.D. 1508.		d. h. m	-
E.	JAN	5 10 4	5 13 54	B.A.	<b>-</b>	1	
March.	FEB	3 22 48	4 8 33	March.	JAN.		
d. h. m.	0	18 17 10		d. h. m.	FEB	1 13 58	
11 11 24	MAR	5 11 32		11 4 51	MAR	$\begin{cases} 2 & 2 & 42 \\ 2 & 42 \end{cases}$	00
	APRIL	4 0 16	4 14 4			(31 15 26	10
	MAY .	3 13 0	4 0 22		APRIL	30 4 10	30 5 36
	June .	2 1 44	2 8 27	ll .	MAY .	29 16 54	29 21 17
	1	( 1 14 28		ŀ	_ 0	$\int 13 \ 11 \ 16$	13 6 55
	JULY.	(81 8 12			JUNE .	128 5 38	28 11 55
	0	(14 21 34	14 22 45		JULY.	27 18 22	28 1 7
	Aug	29 15 56	29 6 6		Aug.	26 7 6	26 12 55
	SEPT	28 4 40	27 15 54		SEPT	24 19 50	24 23 47
	Oct	27 17 24	27 4 20		Ост	24 8 34	24 10 16
	Nov	26 6 8	25 19 35	H	Nov	22 21 18	22 20 51
	Dec	25 18 52	25 13 14		_ 0	∫ 7 15 40	7 15 56
		40 20 02	20 15 14		DEC	(22 10 2	22 7 40
1506.	JAN	21 7 36	24 8 8	1509.	-		
ъ.	0	8 1 58	8 5 7	G.	JAN	20 22 47	20 18 49
	FEB	22 20 21	23 2 53	1	FEB	19 11 31	19 6 23
11 17 13	MAR	24 9 5	24 19 58	11 10 39	MAR.	21 0 15	20 18 35
	APRIL	22 21 49	23 10 27		APRIL	19 12 59	19 7 45
	MAY .	22 10 33	22 22 6		MAY.	19 1 43	18 21 59
	June.	20 23 17	21 7 24	i	, O	$\int_{0}^{\infty} 2 \cdot 20 \cdot 5$	3 0 12
1	JULY.	20 12 1	20 15 17		JUNE.	17 14 27	17 13 6
	Aug	19 0 45	18 22 48		JULY.	17 3 11	17 4 32
İ	SEPT	17 13 29	17 6 55		Aug	15 15 55	<b>15 19 3</b> 8
	Oct	17 2 13	16 16 29		Sept.	14 4 39	14 9 57
	Nov	15 14 57	15 4 1		Oct	13 17 23	13 23 17
	DEC	15 3 41	14 17 43		Nov	$\int 12 \ 6 \ 7$	12 11 42
150-	_				0	(27 0 29	26 15 42
1507. c.	JAN.	13 16 25	13 9 25		Dec	11 18 51	11 23 23
	FEB.	12 5 9	12 2 36	1510.	JAN	10 7 35	10 10 22
11 23 2	MAR.	13 17 53	13 20 15	F.	FEB.	8 20 19	8 20 43
	APRIL	12 6 37	12 13 16	11 16 28	MAR.	10 9 3	10 6 38
	MAY .	11 19 21	12 4 41		APRIL	8 21 47	8 16 36
	14	(10 8 5	10 17 56		MAY.	8 10 31	8 3 18
		25 2 27	24 16 23		June .	6 23 15	6 15 22
	JULY .	9 20 49	10 5 g		July .	6 11 59	
	Aug.	8 9 33	8 14 41		Aug.	5 0 43	6 5 12   4 20 35
	SEPT.	6 22 17	6 23 27	1	SEPT.	3 13 27	1
	Oct.	6 11 1	6 8 29		Oct.	3 2 11	3 13 0
	TAOA.	4 23 45	4 18 20		Nov.	1 14 55	8 5 33
	DEC.	4 12 29	4 5 20		1	1 3 39	1 21 27
	0 1	19 6 51	19 15 26				1 12 8   31 <b>1 1</b> 4
			11		1	CO 10 20	J. J. 14

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1511.		d. h. m.	d. h. m.	A.D. 1514.		d. h. m.	d. h. m.
E.	JAN	29 5 8	29 12 44	A.	Jan	25 20 18	26 3 22
d. $h$ . $m$ .	FEB	27 17 52	27 22 40		0	( 9 14 40	9 12 31
11 22 17	MAR	29 6 36	29 7 28	March. $d. h. m.$	FEB	(24 9 2	24 20 54
	0	(13 0 58	13 10 32	11 15 43	MAR	25 21 46	26 11 37
	APRIL	27 19 20	27 15 35		APRIL	24 10 30	24 23 16
	MAY.	27 8 4	27 0 24		MAY .	23 23 14	24 8 19
	June .	25 20 48	25 10 24		June.	22 11 58	22 15 41
	JULY.	25 9 32	24 22 34		JULY.	22 0 42	21 22 32
	Aug	23 22 16	23 13 13		Aug.	20 13 26	20 5 52
	SEPT	22 11 0	22 6 1		SEPT	19 2 10	18 14 43
	0	7 5 22	7 0 2		Ocr	18 14 54	18 1 53
	Ocr	21 28 44	22 0 4		Nov	17 3 38	16 15 46
	Nov	20 12 28	20 18 9		DEC	16 16 22	16 8 16
	DEC	20 1 12	20 11 1				
1512.	JAN.	18 13 56	19 1 47	1515.	JAN	∫15 5 6	15 2 34
D.C.	FEB.	17 2 40	17 14 5	G.	0	29 23 28	80 4 25
11 4 6	MAR.	17 15 24	18 0 5		FEB	13 17 50	13 21 26
11 4 0		(1 9 46	1 10 48	11 21 32	MAR.,	15 6 34	15 15 20
	O APRIL	16 4 8	16 8 19	}	APRIL	13 19 18	14 7 6
	MAY.	15 16 52	15 15 86		MAY.	13 8 2	13 20 8
	June .	14 5 86	18 22 52		June.	11 20 46	12 6 88
	July.	13 18 20	13 7 16		July.	∫11 9 30	11 15 7
	Aug.	12 7 4	11 17 51		0	26 3 52	25 18 55
	SEPT.	(10 19 48	10 7 17		Aug	9 22 14	9 22 50
	0	25 14 10	25 16 8		SEPT	8 10 58	8 6 43
	Oct.	10 8 32	9 28 87		Ocr	7 23 42	7 15 40
	Nov.	8 21 16	8 18 9		Nov	6 12 26	6 2 16
	DEC.	8 10 0	8 18 81		DEC	6 1 10	5 14 58
1513.	JAN.	6 22 45	784	1516.	JAN.	( 4 18 55	4 5 83
в.	FEB.	5 11 29	6 0 26	F.E.	0	(19 8 17	19 19 2
11 9 55	MAR.	(7 0 13	7 13 58		FEB	8 2 89	2 21 52
-2 0 00	0	21 18 85	21 13 28	11 8 21	MAR	3 15 23	3 15 8
	APRIL	5 12 57	6 0 27		APRIL	2 4 7	2 8 24
	MAY.	5 1 41	5 8 45		May.	f 1 16 51	2 0 86
	JUNE.	8 14 25	8 15 48		TATY X .	(81 5 85	31 14 59
	JULY.	3 3 9	2 22 22		June .	29 18 19	80 8 12
		( 1 15 58	1 5 54		0	∫ 14 12 41	14 0 59
	Aug	31 4 37	30 15 19		JULY.	29 7 8	29 18 37
	0	(14 22 59	15 4 87		Aug.,	27 19 47	27 22 56
	SEPT	29 17 21	29 8 27		SEPT	26 8 31	26 8 2
	Oct	29 6 5	28 18 42		Oct	25 21 15	25 17 86
	Nov	27 18 49	27 12 37		Nov	24 9 59	24 4 6
	DEC	27 7 88	27 8 8		DEC	28 22 48	23 15 48
i	į	1	Į.			1	'

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1517.		d. h. m.	d. h. m.	A.D. 1520.		d. h. m.	à. h. m.
D.	JAN	22 11 27	22 4 28	a.g. March.	JAN	20 2 38	20 11 31
March. $d. h. m.$	FEB	21 0 11	20 18 23	d. h. m.	FEB	18 15 22	18 <b>22</b> 9
11 9 10	MAR	22 12 56	22 9 21	11 2 36	Mar	19 4 6	19 7 17
	APRIL	21 1 40	21 <b>1</b> 0		APRIL	<b>17 1</b> 6 50	17 15 81
	May.	20 14 24	20 16 49		0	j 2 11 12	2 21 28
	June.	19 3 8	19 8 2		MAY.	17 5 34	16 23 40
	JULY.	18 15 52	18 22 6		June.	15 18 18	15 8 42
	Aug	17 4 36	17 10 48		July.	15 7 2	14 19 38
	SEPT	15 17 20	15 22 22		Aug	13 19 46	18 9 1
	Ост	15 6 4	15 9 <b>1</b> 5		SEPT	12 8 30	12 0 56
	Nov	13 18 48	13 19 56		Ост	11 21 14	11 18 42
	DEC	13 7 32	13 6 42		0	126 15 86	26 9 11
4540	_	44 00 40	44 45 00		Nov	10 9 58	10 13 10
1518. c.	JAN	11 20 16	11 17 38		DEC	9 22 42	10 6 56
	FEB	10 9 0	10 4 47				
11 14 59	MAR.	11 21 44	11 16 20	1521.	JAN	8 11 26	8 22 56
	APRIL	10 10 28	10 4 41	F.	FEB	7 0 10	7 12 27
	MAY.	9 23 12	9 18 7	11 8 25	Mar	8 12 51	8 28 29
	0	(24 17 34	25 0 23		APRIL	7 1 38	7 8 21
	JUNE.	8 11 56	8 8 42		MAY .	6 14 22	6 15 50
	July.	8 0 40	8 0 3		June.	5 3 6	4 22 52
	Aug.	6 13 24	6 15 31		July.	<b>4 1</b> 5 50	4 6 80
	SEPT.	5 2 8	5 6 31 4 20 39		Αυσ	3 4 34	2 15 52
	Oct	4 14 52	3 9 49		SEPT	1 17 18	1 8 51
	Nov	17 21 58	17 11 6		Ост.	1 6 2	(80 18 52
	- n	2 16 20	2 22 3		001.	<b>(80 18 4</b> 6	30 <b>1</b> 2 8 <b>8</b>
	DEC	2 10 20	2 42 3		Nov	29 7 80	29 7 48
1510	_	(154	1 9 25		DEC	28 20 14	29 8 1
1519. B.	JAN	30 17 49	30 20 0				
	FEB			1522.	JAN	27 8 59	27 20 88
11 20 48	Mr	( 1 6 33	1 5 55	E.	FEB	25 21 48	26 11 28
11 20 40	MAR.	30 19 17	30 15 32		0	(12 16 5	12 10 27
	APRIL	29 8 1	29 1 29	11 14 14	MAR	27 10 27	27 28 26
	0	14 2 23	14 14 24		APRIL	25 28 11	26 8 <b>4</b> 0
	MAY.	28 20 45	28 12 35		MAY.	25 <b>1</b> 1 55	25 16 6
	June.	27 9 29	27 1 22		June .	24 0 89	28 22 44
	JULY.	26 22 13	26 16 1		July .	28 18 28	28 5 48
	Aug	25 10 57	25 8 9		Aug	22 2 7	21 14 7
	SEPT	23 23 41	24 0 58		0	5 20 29	6 2 1
	Ост	23 12 25	23 17 35		Sept	20 14 51	20 0 54
	. 0	7 6 47	6 19 3		Oct	20 8 85	19 14 40
	Nov.	(22 1 9	22 9 10		Nov	18 16 19	18 7 24
	DEC	21 13 53	21 23 5		DEC	18 5 8	18 2 15
		1		İ			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Fuil Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Fuli Ecl.)	True New Moon.
	JAN FEE O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV	d. h. m.  16 17 47  15 6 81  (2 0 58  16 19 15  15 7 59  14 20 48  18 9 27  12 22 11  (11 10 55  26 5 17  9 23 89  9 12 28  8 1 7	d. h. m.  16 21 46 15 16 16 1 21 56 17 8 25 15 21 80 15 7 44 18 15 49 12 22 51 11 5 58 26 5 38 9 14 2 9 0 5 7 12 89		JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	d. h. m.  13 8 57  11 21 41  13 10 25  11 23 9  11 11 53  (10 0 87  (2± 18 59  9 13 21  8 2 5  6 14 49  6 3 83  4 16 17  (4 5 1	d. h. m.  13 2 17  11 15 23  13 5 32  11 20 36  11 12 12  10 3 45  24 14 19  9 18 42  8 8 8  6 20 29  6 7 57  4 18 56  4 5 47
1524. c.s. 11 1 52	DEC  JAN  FEB  O  MAR  APRIL  MAY .  JUNE .  JULY .  SEPT  OCT  NOV  DEC	7 13 51 6 2 36 4 15 20 19 9 42 5 4 4 8 16 48 8 5 82 1 18 16 1 7 0 80 19 44 29 8 28 27 21 12 27 9 56 25 22 40 25 11 24	7 8 52 5 21 19 4 15 54 19 13 43 5 10 16 4 8 6 8 17 29 2 5 11 1 14 88 80 22 47 29 6 89 27 15 10 27 1 1 25 12 40 25 2 14 28 17 86	1527. F. 11 19 18	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT. OCT. NOV. O DEC.	26 28 38 25 12 22 25 1 6 28 18 50 8 8 12	1
11 7 41	FEB.	22 12 58 24 1 87 22 14 21 22 8 5 20 15 49 5 10 11 20 4 88 18 17 17 17 6 1	22 10 15 24 8 24 22 20 5 22 11 28 21 0 44 4 28 81 20 12 10 18 22 9 17 7 80 16 17 0 15 8 8 14 14 18	1528. E.D. 11 1 7	Jan. Feb. Mar. Apri: May June July Aug. Seft. Oct. Nov. Dec.	. 20 4 8 2 10 16 47 19 5 31 18 18 18 18 17 6 59 41 15 8 22 1 18 21 1 18 9 5	20 5 17 20 14 45 19 0 12 5 18 10 28 9 16 22 6 3 16 11 47 7 15 8 19 1 18 20 6 5 18 18 12 9 12 5 89

			<del></del>			I	
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1529.		d. h. m.	d. h. m.	A.D. 1532.		d. h. m.	d. h. n.
C.	JAN	10 0 7	10 10 0	G.F.	JAN	7 15 17	7 16 O
March. $d. h. m.$	FEB	8 12 51	8 21 21	March. $d. h. m.$	FEB	6 4 1	6 11 7
11 6 56	MAR	10 1 35	10 7 1	11 0 22	MAR	6 16 45	7 428
	APRIL	(8 14 19	8 15 25	·	APRIL	5 5 29	5 19 2
	0	23 8 41	23 17 25		MAY .	4 18 13	5 6 36
	MAY.	8 3 3	7 23 17		JUNE .	3 6 57	8 15 88
	June.	6 15 47	6 7 35		JULY.	2 19 41	2 23 5
	JULY.	6 4 31	5 17 21			(1 8 25	166
1	Aug	4 17 15	4 5 27		Aug	(30 21 9	30 13 44
	SEPT	3 5 59	2 20 12		SEPT	29 9 58	28 22 51
	Ocr	( 2 18 43	2 13 19		Ocr	28 22 37	28 10 18
	0	17 13 5	17 8 31		Nov	27 11 21	27 0 9
		(1 7 27	1 7 48		DEC	27 0 5	26 16 28
	Nov	80 20 11	(1 2 15		<i>D</i> 50		
	DEC	30 8 55	$\begin{bmatrix} 1 & 1 & 2 & 15 \\ 30 & 19 & 23 \end{bmatrix}$	1500	~	07 10 50	07 10 00
			,	1533. E.	JAN	25 12 50	25 10 29
1530.	JAN	28 21 40	29 10 14		_ O	9 7 12	9 18 7
В,	FEB	27 10 24	27 22 25		FEB	(24 1 84	21 4 57
11 12 45	MAR	28 23 8	29 8 10	11 6 <b>1</b> 1	MAR.	25 14 18	25 22 88
1	0	$\int 12 \ 17 \ 30$	12 17 46		APRIL	24 8 2	24 14 7
	APRIL	{27 11 52	27 16 5		MAY.	23 15 46	24 8 6
	MAY.	27 0 36	26 23 5		JUNE.	22 4 30	22 13 41
	June.	25 13 20	25 6 12		July.	21 17 14	21 22 80
	JULY.	25 2 4	24 14 33		. 0	5 11 86	5 1 48
	Aug	23 14 48	23 1 10		Aug	20 5 58	20 6 84
	Sept.	22 3 32	21 14 43		SEPT	18 18 42	18 14 52
	0	6 21 54	7 0 25		Ост	18 7 26	18 0 9
	Oct	\21 16 16	21 7 16		Nov	16 20 10	16 10 58
	Nov	20 5 0	20 2 0		DEC	16 8 54	15 28 88
	Dec	19 17 44	19 21 31				
1531.	JAN	18 6 29	18 16 9	1534.	JAN	<b>514 21 3</b> 9	14 18 55
A.	FEB	16 19 13	17 8 28	D.	0	29 16 1	80 8 87
11 18 34	MAR	18 7 57	18 21 47		FEB	13 10 23	13 5 44
	0	(2 2 19	1 20 55	11 12 0	MAR	14 23 7	14 22 29
	APRIL	16 20 41	17 8 11		APRIL	13 11 51	13 15 17
	MAY .	16 9 25	16 16 19		MAY .	13 0 35	13 7 17
	JUNE.	14 22 9	14 23 10		June .	11 18 19	11 21 89
	JULY.	14 10 53	14 5 50		July .	511 2 8	11 10 8
	Aug	12 23 37	12 13 29		0	<b>(25 20 25</b>	25 8 6
	Sept	(11 12 21	10 23 3		Aug	9 14 47	9 20 59
	0	{26 6 43	26 12 24		SEPT	8 3 31	8 6 48
	Oct	11 1 5	10 11 23		Ocr	7 16 15	7 16 28
	Nov	9 13 49	9 2 43		Nov	6 4 59	6 2 22
	DEC	9 2 33	8 20 40		DEC	5 17 43	5 18 1

Mean Vernal Equinox
1535. C. March. d. h. m. 11 17 49  MAR 4 6 27 4 0 82  March. d. h. m. 11 17 49  MAR 4 7 55 4 2 16  April 22 9 28 2 7 45  March. Si 22 7 81 28 17  June . 80 10 51 80 14 82  July . 29 28 35 80 4 54  Aug 28 12 19 28 18 8  Sept 27 1 8 27 6 17  Oct 26 18 47 26 17 44  Nov 25 2 81 25 4 48  Dec 24 15 15 21 15 41  1538.  Ban 23 4 0 28 2 28  Ban 21 16 44 21 18 12  April 20 18 12 20 11 56  March. March. March. March. March. d. h. m. 10 17 5  March. March. March. d. h. m. 11 17 15  March. March. d. h. m. 12 80 20 1  March. d. h. m. 13 0 10 21  So 20 1  March. March. 11 11 15  March. March. 11 11 15  March. March. 11 11 15  March. 11 11 15  March. March. 12 8 28 3 5  April 29 0 38 28 28 1  O (18 18 55 14 4 1)  May . (28 18 17 28 6 8)  July . 26 14 45 26 2 8  Aug 25 8 29 24 16  Sept 28 16 18 28 8  Oct 28 4 57 28 2  Oct 28 4 57 28 2  Iban.
March. d. h. m. 11 17 49       Feb. 2 19 11 2 12 55 4 2 16 d. h. m. 11 17 49       Marc. 4 7 55 4 2 16 d. h. m. 11 11 15       March. d. h. m. 11 17 49       Mar. 2 20 89 2 16 36 d. h. m. 11 11 15       March. d. h. m. 11 11 15       Feb. 2 8 28 5 5 10 6 8 30 15 28 28 17 d. m. 11 11 15       Mar. 30 11 49 80 20 1 80 15 28 28 17 d. m. 11 11 15       Mar. 30 11 49 80 15 28 28 28 28 28 28 28 28 28 28 28 28 28
Marticle   Mar.
11 17 49   Mar.   4 7 55   4 2 16   March.   d. h. m.   feb.   28 28 5   1 6 8 80 15 20 89   2 16 86   Mar.   11 11 15   Mar.   29 0 88   28 28 17   Mar.   29 0 88   28 28 17   Mar.   29 0 88   28 28 18   Mar.   29 18 8   Mar.   20 18 12 20 11 56   E.   Feb.   28 28 5   1 6 8 80 15 28   11 11 15   Mar.   28 28 28 5   1 6 8 80 15 28 28 28 18   Mar.   28 12 19   28 18 8   Mar.   26 14 45   26 2 8 8 18 17   28 6 8 18 18 18 18 18 18 18 18 18 18 18 18 1
APRIL 2 9 28 2 7 45  MAY . \begin{array}{c c c c c c c c c c c c c c c c c c c
MAY . \begin{cases}     & & & & & & & & & & & & & & & & &
June   80 10 51 80 14 82   Max   28 18 17 28 68     July   29 28 85 80 4 54   June   27 2 1 26 15 8     Aug.   28 12 19 28 18 8   July   26 14 45 26 2 8     Sept.   27 1 8 27 6 17   Aug.   25 8 29 24 16     Oct.   26 18 47 26 17 44   Sept.   23 16 13 28 8     Dec.   24 15 15 21 15 41   Oct.   23 4 57 28 2 8     Dec.   24 15 15 21 15 41   Oct.   21 17 41 21 21     1538.   Jan.   23 4 0 28 2 28     B.A.   Feb.   21 16 44 21 18 12     April   20 18 12 20 11 56   E.   Feb.   18 7 58 18 20     Feb.   18 7 58 18 20   Feb.   18 7 58 18 20     Feb.   18 7 58 18 20   Feb.   18 7 58 18 20     Comparison of the product of
July 20 28 85 80 4 54 Aug. 28 12 19 28 18 8 Sept. 27 1 8 27 6 17 Oct. 26 18 47 26 17 44 Nov. 25 2 81 25 4 48 Dec. 24 15 15 21 15 41  1538. B.A. Feb. 21 16 44 21 18 12 10 23 88 MAR. 22 5 28 22 0 12 April 20 18 12 20 11 56  June 27 2 1 26 15 4 June 27 2 1 26 15 4 June 26 14 45 26 2 8 Aug. 25 8 29 24 16 Sept. 28 16 13 28 8 Oct. 28 4 57 28 2 2  (6 28 19 6 17 8) Nov. 21 17 41 21 21 Dec. 21 6 25 21 15 Feb. 18 7 58 18 20
Aug 28 12 19 28 18 8 Sept 27 1 8 27 6 17 Oct 26 18 47 26 17 44 Nov 25 2 81 25 4 48 Dec 24 15 15 21 15 41  1538. I.A 28 4 0 28 2 28 II.A 21 16 44 21 18 12 April 20 18 12 20 11 56  B. A 19 19 9 20 7 Feb 18 7 58 18 20
Sept.   27   1   8   27   6   17
Oct.   26 18 47   26 17 44
Nov.   25   281   25   4   48     Oct.   28   4   57   28   2   2   15   41     Oct.     (6   28   19   6   17   17   17   17   17   17   17
Dec.   24 15 15   21 15 41   O   6 28 19   6 17
1538. JAN 23 4 0 28 2 28 DEC 21 17 41 21 21 10 23 88 MAR 22 5 28 22 0 12 APRIL 20 18 12 20 11 56 DEC 19 19 9 20 7 Feb 18 7 58 18 20
1538.     Jan.     23 4 0 28 2 28       B.A.     Feb.     21 16 44 21 18 12       10 23 88     Mar.     22 5 28 22 0 12       April     20 18 12 20 11 56       E.     Feb.     18 7 58 18 20
B.A.     FEB.     21 16 44 21 18 12       10 23 88     MAR.     22 5 28 22 0 12       APRIL     20 18 12 20 11 56       E.     FEB.     18 7 58 18 20
10 23 88 MAR. 22 5 28 22 0 12 1539. JAN. 19 19 9 20 7 April 20 18 12 20 11 56 E. Feb. 18 7 58 18 20
APRIL 20 18 12 20 11 56 E. FEB 18 7 58 18 20
1 May 20 6 56 20 0 54 1 11 17 4 Mar. 19 20 33 20 7
O   6 4 1 18 4 7 49   APRIL   18 9 22 18 16
June. [18 19 40 18 15 9   May . 17 22 6 17 28
July . 18 8 21 18 6 82 June . 16 10 50 16 6
Aug. 16 21 8 16 22 20 July 15 28 34 15 18
Sept. 15 9 52 15 18 58 Aug. 14 12 18 18 28
Oct 14 22 86 15 4 88 SEPT 18 1 2 12 11
Nov (18 11 20   18 18 20   Oct   12 18 46   12 2
O   128 5 42   27 19 20   Nov   11 2 30   10 20
DEC 18 0 4 18 6 58 DEC 10 15 14 10 15
1537. Jan 11 12 48 11 18 20   1540. Jan 9 8 58 9 11
G. FER. 10 1 82 10 4 41 D.C. FER. 7 16 42 8 4
11 5 27 MAR. 11 14 16 11 14 11 10 22 58 MAR. 6 8 5 26 8 19
April 10 8 0 9 28 17 0 0 22 23 48 22 18
MAY . ( 9 15 44 9 8 46 APRIL 6 18 10 7 7
O 24 10 6 21 21 82 MAY . 6 6 54 6 16
June. 8 4 28 7 19 27 June. 4 19 88 4 28
July 7 17 12 7 8 1 July 4 8 22 4 6
Aug. 6 5 56 5 22 41 Aug. 2 21 6 2 21
SEPT. 4 18 40 4 15 5 6 1 9 50 (81 21
Ocr. 4 7 24 4 8 28 SEPT. 0 16 4 12 16 9
Nov ( 2 20 8 8 1 82 80 8
O 17 14 80 17 8 38 Oct 30 11 18 29 22
2 8 52 2 17 85 Nov. 29 0 2 28 5
DEC 81 21 86 DEC 28 12 46 28 10
1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A

Mean Vernal Equinox.	Month.	Mean New Moon. (O Fuli Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean Naw Moon. (7) Full Ecl.)	True New Moon, (*) Full Rcl.)
A.D. 1541.		d. h. m.	d. h. m.	A.D. 1544.	The state of the s	d. h. m.	d. h. m.
в.	JAN	27 1 31	27 5 35	F.E.	0	$\zeta = 9.22.19$	10 7 46
. ,	FEB	25 14 15	25 28 54		JAN	(21 16 41)	24 10 55
March. d. h. m.	0	(12 8 37	12 6 9	March.	FEB	28 5 25	22 28 81
11 4 42	MAR	27 2 59	27 15 51	10 22 8	MAR	28 18 9	28 18 8
	APRIL	25 15 43	26 4 50		APRIL	22 6 53	22 8 84
	MAY .	25 4 27	25 15 1		MAY .	21 19 87	21 18 45
	June.	23 17 11	23 23 9		June .	20 8 21	20 10 12
	JULY.	28 5 55	23 6 21		0	(5 2 48	4 21 45
	Aug	21 18 39	21 13 41		July .	(19 21 5	20 1 11
	0	(5131	5 12 38		Aug	18 9 49	18 15 14
	SEPT	(20 7 23	19 22 6		SEPT	16 22 88	17 4 11
	Ост	19 20 7	19 8 25		Ocr	16 11 17	16 16 14
1	Nov	18 8 51	17 21 6		Nov	15 0 1	15 8 40
	DEC	17 21 35	17 12 14	'	DEC .	(14 12 45	14 14 45
	_				0	29 7 7	29 7 52
1542.	JAN	16 10 20	16 5 22	1545.	JAN	18 1 80	18 1 88
A.	Fев	14 28 4	14 23 34	n.	FEB	11 11 14	11 12 6
1 1	_ 0	§ 1 17 26	1 22 11	11 3 57	MAR	18 2 58	12 22 89
11 10 31	MAR.	(16 11 48	16 17 34		APRIL	11 15 42	11 9 42
	APRIL	15 0 32	15 10 8		MAY .	11 4 26	10 21 44
	MAY .	14 18 16	15 0 28		JUNE.	( 9 17 10	9 11 11
	JUNE.	13 2 0	13 12 11		0	24 11 82	24 15 8
	July.	12 14 44	12 21 58		JULY.	9 5 54	9 2 0
	Aug	11 8 28	11 6 28		Aug	7 18 88	7 17 46
	SEPT	9 16 12	9 14 40		SEPT	6 7 22	6 9 45
1	Oct.	9 4 56	8 23 33		Oct	5 20 6	6 1 15
	Nov.	7 17 40	7 9 42		Nov	4 8 50	4 15 47
1	DEC	7 6 24	6 21 25		DEC	8 21 84	4 5 7
					0	\$18 IS 56	18 8 1
1543.	JAN	5 19 8	5 10 47		1	( 2 10 18	2 17 12
G.	FEB	4 7 52	4 1 42	1546.	JAN	81 28 2	
11 16 19	MAR	5 20 36	5 17 48	C.	FEB		1 4 1
	APRIL	4 9 20	4 10 25	11 9 46	MAR.	2 11 46	( 2 18 48
	MAY .	3 22 4	4 2 46			(1 0 80	81 22 44
	June.	2 10 48	2 17 59		APRIL	80 18 14	80 7 40
	T -	1 23 32			MAY .	80 1 58	29 17 26
	July	1.2		1	JUNE .	28 14 42	28 4 52
		(31 12 16	1		JULY.	28 8 26	27 18 27
	Aug	30 1 0	80 5 47		Aug	26 16 10	26 10 8
	SEPT	28 13 44	28 15 40		SEPT	25 4 54	25 8 19
	Ocr	28 2 28			Ocr	24 17 88	24 20 55
	Nov				Nov	28 6 22	28 18 52
	DEC	26 3 56	25 23 7		DEC	22 19 6	28 5 17
l	1	!	I		1	1	1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon (O Full Ecl.)	Mesn Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (C Full Ecl.)
A.D. 1547.		d. h. m.	d. h. m.	A.D. 1550.		d. h. m.	d. h. m.
В.	Jan	21 7 51	21 18 40	E.	JAN	17 23 1	17 23 54
March. $d$ . $h$ . $m$ .	FEB	19 20 35	20 5 54	March. $d.$ $h.$ $m.$	FEB	16 11 45	16 18 48
11 15 31	Mar	21 9 19	21 15 14	11 9 1	MAR	18 0 29	18 11 55
	APRIL	19 22 3	19 23 15		APRIL	16 13 13	17 2 21
	0	( 4 16 25	5 0 10		MAY.	16 1 57	16 13 50
	MAY .	[19 10 47]	19 6 46		JUNE.	14 14 41	14 22 55
	June .	17 23 31	17 14 48		July.	14 3 25	14 6 33
	JULY.	17 12 15	17 0 25		Aug	12 16 9	12 13 48
	Aug	16 0 59	15 12 30		SEPT	11 4 53	10 21 44
	SEPT	14 13 43	14 3 24		Ост	10 17 37	10 7 10
	Ocr	(14 2 27	13 20 46		Nov	9 6 21	8 18 42
	0	28 20 49	28 17 9		DEC	8 19 5	8 8 37
l ·	Nov	12 15 11	12 15 85				
	DEC	12 3 55	12 10 23	1551.	JAN	7 7 49	7 0 42
1548.	т	10 16 40	11 8 48	D.	FEB.	( 5 20 38	5 18 18
A.G.	JAN Feb	9 5 21	9 18 84		0	20 14 55	20 21 40
10 21 23	MAR	9 18 8	10 6 85	11 14 50	MAR.	7 9 17	7 12 19
10 21 20		(8 6 52	8 16 4		APRIL	5 22 1	6 5 34
	APRIL	28 1 14	28 0 36		MAY .	5 10 45	5 20 59
	MAY.	7 19 36	7 23 46		JUNE .	3 23 29	4 10 0
	June.	6 8 20	6 6 33		July.	3 12 13	8 20 46
	July.	5 21 4	5 18 85			2 0 57	2 5 56
	Aug.	4 9 48	8 21 57		Aug. C	16 19 19	16 8 35
	SEPT.	2 22 32	2 8 37			(81 18 41	81 14 25
	Oct.	( 2 11 16	( 1 22 20		SEPT.	30 2 25	29 23 8
	0	17 5 38	17 8 48		Ocr	29 15 9	29 8 46
		(1 0 0	(81 15 2		Nov	28 8 58	27 19 44
	Nov	80 12 44	80 9 55		DEC	27, 16, 87	27 8 14
	DEC	80 1 28	80 5 81				
1540		00 14 10	29 0 7	1552.	JAN.	26, 5 22	25 22 13
1549. F.	JAN	28 14 12 27 2 56	29 0 7 27 16 20	C.B.	0	( 9 28: 44	10 12 3
11 8 12	FEB.	27 2 56 28 15 40	27 16 20		FEB	24 18 6	
11 0 12	MAR	(12 10 2	12 4 14	10 20 39,	MAR.	25 6 50	25 5 42
	APRIL	27 4 24	27 15 45		APRIL	28 19 34	28 22 8
	MAY.	26 17 8	26 28 45		MAY .	28 8 18	28 13 50
	June.	25 5 52	25 6 86		JUNE.	21 21 2	2,2 4 17
	JULY.	24 18 36	24 13 22		July .	21, 9, 46	21, 17 5
	Aug.	23 7 20	22 21 10		0	5 4 8	4 15 20
	SEPT.	21 20 4	21 6 57		Aug	19 22 80	20 4 24
	0	(6 14 26	6 20 17		SKPT	18 11 14	18 14 46
	Oct	21 8 48	20 19 25		Ocr	17 23 58	The same of the same of
	Nov.	19 21 32	19 10 50		Nov	16 12 42	4 53.0 53774.5 1
	DEC.	19 10 16	19 4 42		DEC	16 1 26	15 21 57
		== == ==			1		an marking to the

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (C Full Ecl.)
A.D. 1553.		d. h. m.	d. h. m.	A.D. 1556.		d. h. m.	d. h. m.
A	JAN	14 14 11	14 9 20	E.D.	Jan	12 5 21	12 16 34
March. $d. h. m.$	FEB	13 2 55	12 21 17	March. $d. h. m.$	FEB	10 18 5	11 4 48
11 2 27	MAR	14 15 39	14 10 3	10 19 54	MAR	11 6 49	11 14 55
	APRIL	13 4 23	12 23 46		APRIL	9 19 33	9 28 19
	MAY.	12 17 7	12 14 26		MAY.	(9 8 17	9 6 48
	June.	11 5 51	11 5 44		0	24 2 39	24 10 54
	July.	10 18 35	10 21 3		June .	7 21 1	7 14 20
	Aug.	9 7 19	9 11 48		July.	7 9 45	6 22 56
İ	SEPT.	7 20 3	8 1 34			5 22 29	5 9 40
	Oct.	7 8 47	7 14 21		Aug	4 11 13	8 28 12
	Nov.	5 21 31	6 2 19		Sept		
			- 1		Oct.	3 23 57	
	DEC	5 10 15	5 13 42		Nov.	2 12 41	
				·	0	17 7 3	17 2 44
1554.	JAN	3 22 59	4 0 39		DEC	2 1 25	2 5 6
G.	FEB	2 11 43	2 11 11			31 14 9	31 23 24
11 8 16	MAR.	4 0 27	3 21 28			•	
1	APRIL	.2 13 11	2 7 55	1557.	JAN	30 2 53	80 15 85
	Mr	2 1 55	1 19 7	c.	FEB	28 15 37	(1 4 58
	MAY .	181 14 89	.31 7 37	11 1 43	MAR	30 4 21	30 15 44
	0	15 9 1	15 15 11		APRIL	28 17 5	28 23 55
	JUNE .	130 3 23	.29 21 41	•	MAY .	28 5 49	28 6 56
	JULY .	29 16 7	:29 13 5		JUNE .	26 18 33	26 18 40
1	Aug.	28 4 51	28 5 15	1	JULY .	26 7 17	25 21 13
ŀ	SEPT	26 17 35	26 21 19		Aug.	24 20 1	24 6 40
}	Oct.	26 6 19	26 12 41	H	SEPT.	23 8 45	22 18 54
	Nov.		25 2 52		Ocr.	22 21 29	22 10 13
	0	( 9 13-25	9 3 37		Nov.	21 10 13	21 4 13
1	DEC.	14	.24 15 43		DEC.	20 22 57	20 23 42
					D.O	20 22 0.	20 20 22
1555.	JAN.	. 22 20 32	23 3 9	1558.	JAN.	19 11 42	19 19 1
F.	FEB.		21 13 16	В.	FEB.	18 0 26	18 12 30
11 14 5	. 1		22 22 21	11 7 32	MAR.	19 13 10	20 8 10
	APRII			02		(3 7 32	
	MAY	1	1	1	APRIL	14	
	0	(4 17 50			MAY		
	JUNE	13.			JUNE		1
	JULY		1	1	_	7	1
	Aug.	-			JULY		1
	SEPT.				Aug.		1
	Oct.				SEPT.	14	
	Nov.	1	1		0	l l	
	_	28 22 14	1		Oct.	. 12 6 18	1
	DEC.	. 13 16 36	1		Nov.		
	ماندر بـ	12 10 20	14 2 2		DEC.	. 10 7 46	9 23 36
		l .	ı	II.			l

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New  Moon. (O Full Ecl.)	Mean Vernul Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1559.		d. h. m.	d. h. m.	A.D. 1562.		d. h. m.	d. h. m.
A.,	JAN	8 20 31	8 18 13	D.	Jan	f 5 11 41	5 8 0
March. d. h. m.	FEB	7 9 15	7 13 19		0	20 6 3	20 15 54
11 13 20	MAR	ſ 8 <b>21</b> 59	9 7 22	March.	FEB	4 0 25	3 19 29
	0	123 16 21	23 14 14	d. h. m. 11 6 47	MAR.	5 13 9	5 7 83
	APRIL	7 10 43	7 23 7		APRIL	4 1 58	3 20 27
	MAY.	6 23 27	7 12 1		MAY.	8 14 37	3 10 24
	June.	5 12 11	5 22 14		June .	2 3 21	2 1 18
	July.	5 0 55	5 6 32			( i 16 5	1 16 41
	Aug	3 13 39	<b>3 13</b> 59		JULY O	16 10 27	16 5 13
	SEPT	f 2 2 23	1 21 37			31 4 49	81 7 54
	0	16 20 45	16 <b>1</b> 9 45		Aug	29 17 38	29 22 26
	0.55	1 1 1 5 7	1 6 21		SEPT.	28 6 17	28 11 59
	Oct	\\(\frac{1}{31}\) 8 51	80 16 55		Ocr	27 19 1	28 0 37
	Nov	29 16 35	29 5 89		Nov	26 7 45	26 12 29
	DEC	29 5 19	28 20 86		DEC	25 20 29	25 23 42
1560.	JAN	27 18 3	27 13 22	1563.	0	9 14 51	9 15 48
G.F.	FEB	26 6 47	26 7 5	c.	JAN	24 9 13	24 10 22
	0	(12 1 9	12 6 80		FEB	22 21 57	22 20 85
10 19 9	MAR	26 19 31	27 0 40	11 12 36	MAR	24 10 41	24 6 87
10 10 0	APRIL	25 8 15	25 16 58		APRIL	22 28 25	22 17 5
	MAY.	24 20 59	25 7 12		MAY.	22 12 9	22 4 88
	June.	23 9 48	28 19 8		JUNE.	21 0 58	20 17 45
	July.	22 22 27	28 5 10		0	5 19 15	5 22 27
	Aug.	21 11 11	21 14 4		July .	20 13 37	20 8 81
	0	( 5 5 83	4 19 50		Aug	19 2 21	19 0 82
	SEPT.	19 28 55	19 22 47		SEPT	17 15 5	17 16 58
	Oct.	19 12 89	19 8 4		Our	17 3 49	17 9 8
	Nov.	18 1 23	17 18 28		Nov.	15 16 83	16 0 8
	DEC	17 14 7	17 6 11		DEC	ſ15 5 17	15 18 51
					0	29 28 89	29 16 14
1561.	T	10 0 21	15 10 10		_		
E.	JAN FEB	16 2 51	15 19 18	1564.	JAN	13 18 2	14 2 2
11 0 58	MAR	14 15 85	14 9 48	B.A.	FaB	12 6 46	12 12 42
11 0 90		16 4 20	16 1 15	10 18 25	MAR.	12 19 80	12 22 2
	APRIL MAY .	14 17 4	14 17 21		APRIL	11 8 14	11 6 85
		14 5 48	14 9 22		MAY.	10 20 58	10 15 6
	June. July.	12 18 82	18 0 82		June.	9 9 42	9 0 29
	Aug	$\begin{bmatrix} 12 & 7 & 16 \\ 10 & 20 & 0 \end{bmatrix}$	12 14 18		JULY.	8 22 26	8 11 41
			11 2 32		Aug	7 11 10	7 1 15
	SEPT	9 8 44	9 18 88		SEPT	5 28 54	5 17 7
	Oct	8 21 28	9 0 18		Oor	5 12 88	5 10 40
	Nov	7 10 12	7 10 19		Nov.	4 1 22	4 4 46
	DEC	6 22 56	6 20 58		Dec	8 14 6	8 22 9
1				1	<u> </u>	1	C Administration

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1565. <sub>G</sub> .	JAN	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	d. h. m. 2 13 50	A.D. 1568. D.C. March.	JAN FEB	d. h. m. 29 6 44 27 19 28	d. h. m. 29 7 40 28 2 17
March. d. h. m.	FEB		1 3 14 2 14 16	d. h. m. 10 17 40	Mar	28 8 12	28 19 11
11 0 13	MAR	\{\gamma_1 17 2	31 23 17		APRIL MAY .	26 20 56 26 9 40	27 9 28 26 20 58
	APRIL	30 5 46	30 6 58		June.	24 22 24	25 6 10
	0	$\int 15 \ 0 \ 8$	15 6 49		July.	24 11 8	24 14 2
	MAY .	129 18 30	29 14 11		Aug	22 23 52	22 21 37
	June.	28 7 14	27 22 1		SEPT	21 12 36	21 6 52
	July.	27 19 58	27 7 33		Ocr	21 1 20	20 15 37
	Aug	26 8 42	25 19 34		Nov	19 14 4	19 3 17
	SEPT	24 21 26	24 10 43		DEC	19 2 48	18 17 6
	Oct	24 10 10	24 4 20				
	0	8 4 32	8 1 54	1569.	JAN	17 15 88	17 8 53
	Nov	122 22 54	22 23 27	в.	FEB	16 4 17	16 2 1
	DEC	22 11 38	22 18 30		0	( 2 22 39	8 6 6
1566.	JAN	21 0 23	21 11 56	10 23 29	MAR.	17 17 1	17 19 35
F.	FEB	19 13 7	20 2 43	20 20 21	APRIL	16 5 45	16 12 28
11 6 2	MAR	21 1 51	21 14 34		MAY.	15 18 29	16 3 44
1	APRIL	19 14 35	19 23 50		JUNE .	14 7 13	14 16 52
	0	$\begin{cases} 4 & 857 \end{cases}$	4 7 19		July.	13 19 57	.14 8 54
1	MAY .		19 7 19	1	Aug.	(12 8 41	12 13 23
1	June .	1	17 13 59	1	0	27 8 3	26 15 86
	July .		16 20 59		SEPT	10 21 25	10 22 28
l	Aug.	1	15 5 25		Oct.	10 10 9	10 7 32
	SEPT.	L.	13 16 14		Nov.	8 22 53	8 17 80
	Oct.	. (13 18 59	1	ll .	DEC.	8 11 37	8 4 35
	0	\28 13 21	1				
	Nov.	. 12 7 43	11 22 54	1570	JAN.	7 0 22	6 16 55
	DEC.	. 11 20 27	11 17 51	1570.	FEB.	C 7 10 6	
1567.	JAN.	. 10 9 12			0	20 7 28	
E.	FEB.	. 8 21 56		11 5 18		1	
11 11 51	1			. 11 5 16	APRIL		
	APRII	1 (			MAY		1
	0	128 17 40			JUNE	1	
	MAY	1	1	11	July		
	JUNE		-	11		1 17 3	
	JULY	1	1	H	Aug.	- 1 1 2 2 2	
	Aug.	.		1		31 6 1	
	SEPT.	.   0 ===	T   1	- 11	SETT.		
	Oct.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-		Oct.	. 29 7 4	
	Nov	1 1			Nov.		
	Nov.	1 10 5	Kenta	Ĺ	DEC.	. 27 9 1	0 27 6 55
	DEC.	. 1)	0 30 12 4	7			
,		1 (00 10	0   00 TH H	. (1	'		

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. ) (O Full Ecl.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. (O Full Ecl
A.D. 1571. G.	T	d. h. m.		A.D. 1574,		d. h. m.	d. h. m.
March.	JAN.	25 21 54	25 18 1	March.	JAN	22 13 4	23 1 5
d. h. m		24 10 38	24 5 81	d. h. m.	FEB	21 1 48	21 13 13
11 11 6	MAR.	25 23 22	25 17 41	11 4 33	MAR	22 14 32	22 28 3
	APRIL	24 12 6	24 6 48		APRIL	21 3 16	21 7 9
1	MAY.	24 0 50	23 21 2		MAY.	20 16 0	20 14 20
1	JUNE.	22 13 34	22 12 9	ii .	0	f 4 10 22	4 17 80
I	July.	22 2 18	22 8 87		JUNE .	19 4 44	18 21 37
	0	5 20 40		1	JULY.	18 17 28	18 6 7
	Aug	20 15 2			Aug	17 6 12	16 16 51
l	SEPT.	19 3 46	19 9 6		SEPT	15 18 56	15 6 29
	Oct	18 16 30	18 22 29		Ocr	15 7 40	14 23 2
	Nov	17 5 14	17 10 57		Nov	(18 20 24	18 17 42
	DEC	16 17 58	16 22 38		0	28 14 46	28 11 37
					DEC	13 9 8	18 18 7
1572.	JAN	15 6 43	15 9 35				
F.E.	FEB	13 19 27	13 19 50	1575.	JAN	11 21 53	10 7 04
10 16 55	MAR	14 8 11	14 5 40	В.	FEB.		12 7 84
	APRIL	12 20 55	12 15 84	11 10 22		10 10 87	10 23 45
	MAY .	12 9 39	12 2 13	11 10 22	MAR	11 23 21	12 13 0
	JUNE.	(10 22 23	10 14 20		APRIL	10 12 5	10 23 22
	0	25 16 45	25 22 82	1	MAY.	10 0 49	10 7 82
ļ	July.	10 11 7	10 4 14		JUNE .	8 13 83	8 14 25
	Aug	8 28 51	8 19 45		JULY,	8 2 17	7 21 5
	SEPT	7 12 85	7 12 15		Aug.,	6 15 1	6 4 43
	Oct	7 1 19	7 4 54	}	SEPT	5 8 45	4 14 18
	Nov	5 14 8	5 20 50		Ocr. ,	4 16 29	4 2 41
İ	DEC	(5 2 48	5 11 80		Nov	8 5 18	2 18 7
	0	(19 21 10	19 11 59		Dac	2 17 57	2 12 12
1573.	JAN	8 15 82	4 0 82	1570	_	(1 6 41	1 7 89
D.	FEB	2 4 16	2 11 53	1576.	Jan	80 19 25	81 2 51
10 22 44	MAR.	8 17 0	8 21 42	25400	FEB.	29 8 9	29 20 18
	APRIL	2 5 44	2 6 22	10 16 11	MAR.	29 20 54	80 10 44
		( 1 18 28	1 14 85		0	18 15 16	18 9 11
	MAY .	81 7 12	80 28 18		APRIL	28 9 88	28 22 11
	0	(15 1 84	15 11 37		MAY.	27 22 22	28 7 5
	June .	29 19 56	29 9 17		June .	26 11 6	26 14 25
	JULY.	29 8 40	28 21 84		JULY .	25 28 50	25 21 14
	Aug.	27 21 24	27 12 24		Aug.	24 12 84	24 4 43
	SEPT.	26 10 8	26 5 28		SEPT.	28 1 18	22 18 45
	Ocr.	25 22 52	25 23 84		0	7 19 40	8 0 58
	Nov.	24 11 86	24 17 41		Oct.	22 14 2	22 1 7
		9 5 58	8 21 6		Nov.	21 2 46	20 15 11
		21 0 20	24 10 28		DEC.	20 15 80	20 7 47
		(20	22 IU 20		- EU	TO 10 00	EG 1 #1
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Mean Vernal Equinox.	Month.	Mean New Moon. (() Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1577. F. March. d. h. m. 10 21 59	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT				JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT		
	Oct Nov Dec	11 22 50 10 11 34 10 0 18	11 14 44 10 1 30 9 14 15		Oct Nov Dec	8 14 0 7 2 44 6 15 28	8 19 58 7 9 4 6 21 19
1578. E. 11 3 48	JAN FEB MAR O APRIL MAY . JULY . AUG SEPT O Oct Nov Dec	8 13 3 7 1 47 8 14 31 23 8 53 7 3 15 6 15 59 5 4 43 4 17 27 3 6 11 1 18 55 16 13 17 1 7 39 30 20 23 29 9 7 28 21 51	8 4 58 6 21 17 8 14 30 23 14 42 7 7 89 6 23 43 5 13 58 5 2 6 3 12 30 1 21 51 16 3 1 1 7 8 30 16 45 29 3 19 28 15 0	1581. A. 10 21 15	JAN. OFEB. MAR. APRIL MAY. JUNE.  JULY OAUG. SEPT. OCT. Nov. DEC.	\$\begin{cases} 5 & 4 & 13 \\ 19 & 22 & 35 \\ 3 & 16 & 57 \\ 5 & 5 & 41 \\ 8 & 18 & 25 \\ 3 & 7 & 9 \\ 1 & 8 & 87 \\ 16 & 2 & 59 \\ 30 & 21 & 21 \\ 29 & 10 & 5 \\ 27 & 22 & 49 \\ 27 & 11 & 38 \\ 26 & 0 & 17 \\ 25 & 18 & 1 \end{cases}	5 8 40 19 28 40 8 19 8 5 4 58 8 14 29 8 0 24 1 11 80 1 0 22 16 5 54 80 15 8 29 7 28 28 0 18 27 16 59 26 8 84 25 22 85
15 <b>79</b> . p. 11 9 87	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	27 10 35 25 23 19 27 12 3 26 0 47 25 13 31 24 2 15 28 14 59 22 3 43 20 16 27 20 5 11 18 17 55 18 6 89	27 8 46 25 17 89 27 8 32 26 0 9 25 15 58 24 7 4 28 21 5 22 9 48 20 21 25 20 8 28 18 19 8 18 5 56	1582. g. 11 3 4	O JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	9 0 26 24 10 46 22 21 14 24 6 12 22 14 20 21 22 25 20 7 82 19 18 84 18 8 8 17 0 14 16 18 8 15 12 41 15 6 26

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1583. F. March. d. h. m. 11 8 52	JAN FER MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT	d. h. m.  18 10 34  11 23 18  18 12 2  12 0 46  (11 18 30  (26 7 52  10 2 14  9 14 58  8 3 42  6 16 26  6 5 10	d. h. m.  18 22 19 12 11 40 18 22 29 12 7 18 11 14 85 26 18 28 9 21 85 9 5 18 7 14 47 6 2 58 5 18 12	A.D. 1586. B. March. d. h. m. 11 2 19	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	d. h. m. 10 1 44 8 14 28 10 8 12 8 15 56 8 4 40 6 17 24 6 6 8 4 18 52 3 7 36 2 20 20 1 9 4	0. Full Ecl.)  d. h. m. 9 20 51 8 15 24 10 9 39 9 2 17 8 16 2 7 4 2 6 13 26 4 21 31 3 5 32 2 14 11 1 0 11
	Nov O Dec	\[ \begin{pmatrix} 4 & 17 & 54 \\ 19 & 12 & 16 \\ 4 & 6 & 38 \end{pmatrix} \]	4 12 3 19 10 44 4 7 24		DEC	(30 21 48 30 10 32	30, 11 58 30 1 38
1584. E.D.	JAN FEB	2 19 28	3 2 36 1 20 3	1587. a.	Jan Feb	28 23 16 27 12 0	28 17 1 27 9 86
10 14 41	MAR  APRIL  O  MAY  JUNE  JULY  AUG  SEPT  OCT  O  Nov	$ \begin{cases} 1 & 20 & 51 \\ 81 & 9 & 85 \\ 29 & 22 & 19 \\ 14 & 16 & 41 \\ 29 & 11 & 8 \\ 27 & 28 & 47 \\ 27 & 12 & 81 \\ 26 & 1 & 15 \\ 24 & 18 & 59 \\ 24 & 2 & 48 \\ 7 & 21 & 5 \\ 22 & 15 & 27 \end{cases} $	2 10 45 81 22 25 EO 7 29 14 18 58 29 14 49 27 21 26 27 4 29 25 18 1 24 0 1 28 14 2 8 1 55 22 6 55	11 8 8	O MAR APHIL MAY . JUNE . JULY . AUG O SEPT OOT Nov DEC	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	14 14 28 29 2 40 27 19 14 27 10 25 25 23 40 25 11 2 28 21 8 6 22 46 22 6 28 21 16 5 20 2 19 19 18 27
1585. c. 10 20 30	DEC  JAN FEB MAR APRIL OMAY . JUNE . AUG OCT ONOV DEC	22 4 11 20 16 55 19 5 89 20 18 28 19 7 7 { 4 1 29 18 19 51 17 8 85 16 21 19 15 10 8 18 22 47 {18 11 81 28 5 58 12 0 15 11 12 59	22 1 50 20 21 20 19 15 42 21 7 87 19 20 80 8 18 86 19 6 82 17 14 88 15 4 42 18 12 59 12 28 18 12 21 11 11 59 11 8 21	1588. G.r. 10 18 57	JAN FEG O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	18 8 5 16 20 49 { 2 15 11 { 17 9 88 15 22 17 15 11 1 18 28 45 18 12 29 { 12 1 18 26 19 35 10 18 57 10 2 41 8 15 25 8 4 9	18 1 34 16 14 39 3 4 32 17 4 45 15 19 46 15 11 19 14 2 49 13 17 34 12 7 10 26 6 10 10 19 33 10 7 4 8 18 7 8 5 0

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Mean Verns Equino	Il Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ect.)
A.D							
1589 E.	Э.	d. h. m.	d. h. m.	A.D. 1592.		d. h. m.	d. h. m.
Marc	h. Jan	6 16 54	6 15 51	B.A. March.	JAN	484	4 18 51
d. h.		5. 5 38	5 2 42	d. h. m.	FEB	2 20 48	3 9 31
10 19	45   MAR	6 18 22	6 13 41	10 13 12	MAR.	3 9 32	3 21 30
	APRIL	5 7 6	5 1 14		APRIL	1 22 16	2 7 4
	MAY .	4 19 50	4 13 48			(1110	1 14 53
<b> </b>	June .	3 8 34	3 3 37		MAY .	30 23 44	30 21 48
	JULY.	2 21 18	2 18 37		0	(14 18 6	15 0 4
		(1 10 2	1 10 14		JUNE .	29 12 28	29 4 57
	Aug. O	16 4 24	15 20 20		JULY.	29 1 12	28 13 24
1	į	(30 22 46	31 1 49		Aug.	27 13 56	27 0 12
	SEPT	29 11 30	29 16 46		SEPT.	26 2 40	25 13 58
1	Ocr	29 0 14	29 6 44		OCT.	25 15 24	25 6 42
	Nov	27 12 58	27 19 41		Nov.	24 4 8	25 6 42
l	DEC.	27 1 42	27 7 32		}	(8 22 30	8 20 85
1					DEC	23 16 52	
1590.	JAN	25 14 27	25 18 24		DEC	(25 16 52	28 21 6
ъ.	FEB.	24 3 11	24 4 22	1593.	JAN	22 5 36	22 15 37
11 1 1	B4 MAR	25 15 55	25 13 43	G.	FEB.	20 18 20	21 7 45
	APRIL	24 4 39	23 23 6	10 19 1	MAR.	22 7 4	22 20 51
	MAY .	23 17 23	23 9 17	10 10 1	APRIL	20 19 48	21 7 2
	June .	22 6 7	21 21 3		MAY.	20 8 32	20 15 3
	1 0	(7 0 29	7 5 54		JUNE.	18 21 16	18 21 52
	JULY .	21 18 51	21 10 51		JULY.	18 10 0	
	Aug	20 7 35	20 2 31		Aug.	16 22 44	18 4 34
	SEPT.	18 20 19	18 19 25		SEPT.	15 11 28	16 12 19 14 22 4
	Ocr	18 9 3	18 12 35			15 11 28 15 0 12	
	Nov	16 21 47	17 5 4		Nov.	13 12 56	14 10 36
	DEC	(16 10 31	16 20 6		Dec.		13 2 9
	1 0	31 4 53	30 20 20		DEC	13 1 40	12 20 12
į	ŀ		00 20 20	1594.	JAN.	11 14 25	11 15 85
1591	JAN	14 23 15	<b>1</b> 5 9 16	F.	FEB.	10 3 9	10 10 86
c.	FEB	13 <b>1</b> 1 59	13 20 29	11 0 50	MAR.	11 15 53	12 3 47
11 7	23 MAR	15 0 43	15 6 0		APRIL	(10 4 37	10 18 8
	APRIL	13 13 27	13 14 15		0	24 22 59	24 16 33
	MAY .	13 2 11	12 22 4		MAY.	9 17 21	10 5 29
	June .	(11 14 55	11 6 23		JUNE.	8 6 5	8 14 28
	0	26 9 17	26 18 34		July.	7 18 49	7 21 49
	JULY,	11 3 39	10 16 15		Aug.	6 7 33	6 4 53
	Aug	9 16 23	9 4 30		SEPT.	4 20 17	4 12 37
1	SEPT	8 5 7	7 19 27		Oct.	(4 9 1	3 21 56
	Oct	7 17 51	7 12 43		0	19 3 23	19 8 44
	Nov	6 6 35	6 7 19		Nov.	2 21 45	2 9 29
	DEC	5 19 19	6 1 47			(2 10 29	1 23 34
1	0	20 13 41	20 5 51		DEC	81 23 13	31 16 0
						(91 50 19	OT 10 0
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Mean Vernal Equinox.	Month.		True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon, (O Full Eol.)
A.D. 1595,		d. h. m	. d. h. m.	A.D. 1598.		d. h. m.	d. h. nz.
Е.	JAN	30 11 58	30 9 58	Α.	JAN.	27. 3 8	27 1 39
March.	FEB				0	(10 21 30	11 7 42
d. h. m		(1 0 42	1 4 22	March.	FEB.	25 15 52	25 12 19
11 6 38	MAR.	180 18 26		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MAR.	27 4 36	26 23 14
	0	(14 7 48			APRIL	25 17 20	1 1
1	APRIL	29 2 10	1		MAY.		25 10 58
1	MAY .			İ			24 28 54
	JUNE .		-	1	JUNE .	28 18 48	23 14 14
	JULY.	26 16 22			JULY.	23 7 32	28 5 39
	Aug.	25 5 6	25 5 26	il	0	7 1 54	6 20 28
	SEPT.	23 17 50	1	ll .	Aug	21 20 16	21 21 31
1	1	1			SEPT	20 9 0	20 13 7
	Ост.	$\begin{cases} 8 & 12 & 12 \\ 23 & 6 & 31 \end{cases}$			Ocr.	19 21 44	20 8 55
İ	Nov.				Nov.	18 10 28	18 17 88
l	i	21 19 18	21 10 12		DEC	17 23 12	18 6 10
	DEC	21 8 2	20 22 54		_		
1596.	JAN	10 00 40	10 10 10	1599.	JAN.	∫16 11 56	16 17 82
D.C.	FEB.	19 20 46	19 13 18	G.	_ 0	(31 6 18	31 7 27
10 12 27	MAR.	18 9 30	18 5 6		FEB	15 0 40	15 3 48
10 12 21	İ	18 22 14	18 21 47	11 5 51	MAR.	16 13 24	16 13 10
1	0	2 16 36	2 22 43		APRIL	15 2 8	14 22 12
	APRIL	(17 10 58	17 14 29	1	MAY.	14 14 52	14 7 38
	MAY .	16 28 42	17 6 21		June .	13 3 36	12 18 21
	JUNE.	15 12 26	15 20 38	1	July .	§ 12. 16 20	12 7 2
	Juny.	15 1 10	15 9 39	]	0	27 10 42	27 18 24
	Aro	13 13 54	18 <b>1</b> 9 52	1	Aug	11 5 4	10 21 50
	SEPT	§12 2 38	12 5 46		SEPT	9 17 48	9 14 28
	0	(26 21 0	26 10 28		Ocr	9 6 82	9 7 47
	Ocr	11, 15 22	11 <b>1</b> 5 26		Nov	7 19 16	8 0 58
	Nov	10 4 6	10 1 29		DEC	7 8 0	7 17 8
	DEC	9 16 50	9 12 14	i i		r	
1597.	T	0 - 0-	<b>7</b> 00 10	1600.	JAN.	5 20 45	6 7 16
В.	JAN	8 5 35	7 23 48	F.E.	_ 0	20 15 7	20 8 87
10 18 16	FEB.	6 18 19	6 12 10		FKB	4 9 29	4 19 27
10.10.10	MAR.	8 7 8	8 1 29	10 11 43	MAR.	4 22 18	5 5 36
	APRIL	6 19 47	6 15 46		APRIL	8 10 57	8 14 14
	MAY.	6 8 81	6 6 51		MAY .	2, 23 41	2 21 59
	JUNE.	4 21 15	4 22 21		JUNE -	1, 12 25	1 5 45
	July.	4 9 59	4 18 85		July .	1 1 9	30 14 37
	A.ug	2 22 48	3 8 58			80 18 58	80 1 88
	SEPT.	1 11 27	1 17 12	, ,	Aug	29, 2 87	28 15 11
	Ocr.	§ 1 0 11	1 5 25	1 1	SEPT.	27.15 21	27 7 81
		30.12 55	80 16 54		Oct	27 4 5	27 1 46
	Nov	29. 1 39	29 4 2		Nov.	25.16 49	25 20 40
,	DEC.	28-14 23	28 14 55	100 % 1810	DEC.	25, 5 88	25 14 41
					.06	In the second	one and the second

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	Trae New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
	ļ		78				 
A.D. 1601.		d. h. m.	d. h. m.	A.D. 1604.		d. h. m.	d. h. m.
D. Monch	JAN	23 18 18	24 6 42	March.	JAN	21 9 28	21 4 58
March. $\ddot{a}$ . $h$ . $m$ .	FEB	22 7 2	22 19 58	d. h. m.	FEB	19 22 12	19 23 2
10 17 31	MAR	23 19 46	24 6 34	10 10 58	MAR.	20 10 56	20 16 54
	APRIL	22 8 30	22 15 1		APRIL	18 23 40	<b>1</b> 9 9 16
	May .	21 21 14	21 22 8		MAY .	18 12 24	18 28 28
	0	( 5 15 36	5 19 53		June .	17 1 8	17 11 2
	June.	20 9 58	20 4 58		JULY.	16 18 52	16 20 41
	JULY.	19 22 42	19 12 37		Aug	15 2 36	15 5 18
	Aug	18 11 26	17 22 9		SEPT	13 15 20	<b>1</b> 3 18 <b>3</b> 5
	SEPT	17 0 10	16 10 28		Ocr	13 4 4	12 22 37
	Ост	16 12 54	16 <b>1</b> 51		Nov	11, 16 48	<b>1</b> 1 8 55
	Nov	(15 1 38	14 19 54		Dec	11 5 32	10 20 45
	0	29 20 0	29 19 41				
	DEC	14 14 22	14 15 22	1605.	JAN	9 18 16	9 10 10
1602.	JAN	13 3 6	13 10 36	F.	FEB	8 7 0	8 1 5
c.	FEB.	11 15 50	12 4 2	10 16 47	MAR.	(91944	9 17 8
10 23 20	MAR.	13 4 34	13 18 36		0	24 14 6	24 22 81
10 20 20	APRIL	11 17 18	12 6 6	ļ.	APRIL	8 8 28	8 9 40
	MAY.	$(11 \ 6 \ 2)$	11 14 59		MAY.	7 21 12	8 1 54
	0	26 0 24	25 20 35		JUNE.	6 9 56	6 17 0
	June.	9 18 46	9 22 14		July.	5 22 40	6 6 28
	July.	9 7 30	9 4 53		Aug	4 11 24	4 18 18
	Aug.	7 20 14	7 12 3		SEPT	(3 0 8	8 4 44
	SEPT.	6 8 58	5 20 47		0	17 18 30	17 6 7
	Ост.	5 21 42	5 7 58		Ocr	2 12 52	2 14 42
	Nov	( 4 10 26	3 22 5		3.7	(1 1 86	1 0 45
	0	19 4 48	19 10 35	,	Nov	80 14 20	80 11 15
	DEC	3 23 10	3 15 0		DEC	80 8 4	29 22 28
1603.	Jan.	2 11 55					
В.	FEB.	1 0 39		1606.	JAN	28 15 49	28 10 11
11 5 9	MAR.	2 13 23	7 . 7	E.	Feb.	27 4 88	26 22 44
22 0 0	DIAG.	(1 2 7			0	(18 22 55	14 12 32
	APRIL	30 14 51		10 22 36	MAR.	28 17 17	28 12 18
		(15 9 13	$\begin{pmatrix} 1 & 3 & 47 \\ 15 & 1 & 41 \end{pmatrix}$		APRIL	27 6 1	27 2 40
	MAY.	30 3 35	30 13 49		MAY.	26 18 45	26 17 51
	June .	28 16 19	28 21 53		June .	25 7 29	25 9 15
	JULY.	28 5 3	28 5 6		JULY.	24 20 13	25 0 15
	Aug.	26 17 47	26 12 31		Aug.	23 8 57	28 14 19
	SEPT.	25 6 31	24 21 6		0	(7 8 19	6 13 48
ļ	Oct.	24 19 15	24 7 36		SEPT	21 21 41	22 8 18
	0	( 8 13 37	8 20 32		Ocr	21 10 25	21 15 25
	Nov	23 7 59	22 20 27		Nov	19 23 9	20 2 54
	DEC	22 20 43	22 11 42	,	DEC	19 11 58	19 14 0
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Mean Vernal	Month.	Mean New Moon.	True New	Mean		Mean New	True New
Equinox.	ALOMOU.	(O Full Ecl.	) (O Full Ecl.)	Vernal Equinox.	Month.	Moon.	Moon
A D		-	-			C Fun Edi.	(O.Full Ecl.)
A.D. 1607.		d. h. m.	d. h. m.	A.D.		d. h. m.	7 7
D.	JAN	18 0 37	18 0 44	1610. G.	T		d. h. m.
March. $d. h. m.$	Time	16 13 21	16 11 18	March.	JAN.	14 15 47	15 3 9
11 4 24	MAR.	18 2 5	17 21 42	d. h. m. 10 21 51	FEB.	13 4 31	13 17 48
	APRIL	16 14 49	16 8 39	10 21 31	MAR.	14 17 15	15 5 37
	MAY .	16 3 33	15 20 42		APRIL MAY.	13 5 59	13 14 55
	JUNE .	14 16 17	14 10 11		JUNE.	12 18 43	12 22 28
	JULY .	14 5 1	14 1 4		O O	{11 7 27 {26 1 49	11 5 14
	Aug	(12 17 45			JULY.	1	26 6 34
	0	27 12 7	27 4 7		Aug.	9 8 55	10 12 18
1	SEPT	11 6 29	11 8 58		SEPT.	9 8 55 7 21 39	8 20 47
	Ocr	10 19 13	11 0 31		Oct.	,	7 7 41
	Nov	9 7 57	9 15 6		Nov.	7 10 23 5 23 7	6 21 37
	DEC	8 20 41	9 4 23		DEC.	5 25 7	5 14 31 5 9 31
					0	20 6 13	
1608.	JAN	7 9 23	7 16 27			(20 015	20 5 33
C.B.	FEB	5 22 10	6 8 9	1611.	T	4 0 00	
10 10 18	MAR	6 10 54	6 12 45	F.	JAN Feb	4 0 36	4 5 8
	APRIL	4 23 38	4 21 38	11 3 40	MAR.	2 13 20	2 23 36
	MAY.	4 12 22	4 6 81	11 0 10	APRIL	4 2 4	4 15 37
	June .	3 1 6	2 16 18		APRIL	2 14 48	3 4 33
	July.	§ 2 13 50	(2 8 48		MAY .	81 16 16	2 14 35
	0	(17 8 12	17 18 16		JUNE .	30 5 0	31 22 29 30 5 17
	Aug	$\begin{cases} 1 & 2 & 34 \end{cases}$	(81 17 82		July.	29 17 44	30 5 17 29 12 6
		(30 15 18	30 9 23		Aug.	28 6 28	27 20 3
	SEPT	29 4 2	29 2 41		SEPT.	26 19 12	26 6 1
	Oct	28 16 46	28 20 22		Ocr	26 7 56	25 18 44
	Nov	27 5 30	27 13 20		Nov.	24 20 40	24 10 19
	DEC	26 18 14	27 4 41		DEC	24 9 24	24 4 17
	0	(10 12 86	10 4 40			,	
1609.	JAN	$\begin{cases} 25 & 12 & 50 \\ 25 & 6 & 59 \end{cases}$	25 17 56	1612.	JAN	22 22 9	22 23 28
A.	FEB.	28 19 48	24 4 59	E.D.	FEB.	21 10 53	21 18 14
10 16 2	MAR.	25 8 27	25 14 9	10 9 29	MAR.	21 23 37	22 11 10
_	APRIL	28 21 11	28 22 8	10 0 20	APRIL	20 12 21	21 1 28
	MAY.	28 9 55	28 5 80	İ	0	(5 6 48	4 28 51
	June .	21 22 89	21 13 85		MAY.	20 1 5	20 12 41
	0	(6171	7 1 83		JUNE .	18 13 49	18 21 40
		21 11 28	20 28 18		July.	18 2 33	18 5 15
	Aug	20 0 7	19 11 84		Aug	16 15 17	16 12 36
	SEPT	18 12 51	18 2 40		SEPT	15 4 1	14 20 40
	Oct	18 1 35	17 20 15		Oct	(14 16 45	14 6 17
	Nov	16 14 19	16 15 10	.	0	29 11 7	29 16 40
	DEC.	(16 8 8	16 9 57	,	Nov	18 5 29	12 18 0
.	0	80 21 25	80 14 88	.	DEC.	12 18 18	1282
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1613. c.	<del></del>	d. h. m.	d. h. m.	A.D. 1616. G.F.	T	d. h. m. 8 22 7	d. h. m. 8 23 52
March.	JAN	11. 6 57	11 0 11	u	JAN	7 10 51	7 10 20
d. h. m.	FEB	9·19 41 11 8 25	9 17 46 11 11 43	March.	FEB	22 5 13	22 15 24
10 15 17	MAR.	(921 9	10 4 48	d. h. m.	MAR.	7 28 85	7 20 88
	APRIL	24 15 31	24 13 44	10 8 44	APRIL	6 12 19	6 6 55
	MAY.	9. 9 53	9 20 1		MAY.	6 1 3	5 18 4
	JUNE .	7 22 37	8 8 55		June -	4 13 47	4 6 35
	JULY.	7 11 21	7 19 37		July.	4 2 31	8 20 45
	AUG	6 0 5	6 4 46		Aug.	(2 15 15	2 12 14
	SEPT	4 12 49	4 13 19		0	17 9 37	17 4 6
	Ост	( 4 1 83	3 22 9			(1 8 59	1 4 27
	0	18 19 55	18 17 53		Sept	30 16 48	30 20 37
	Nov	2.14 17	2 7 55		Oct.	30 5 27	30 12 2
		(2 3 1	1 19 1		Nov.	28 18 11	29 2 14
	DEC	{31 15 45	31 7 34		DEC	28 6 55	28 15 0
				1017	7	00 10 40	07 0 00
1614. B.	JAN	30 4 30	29 21 35	16 <b>17.</b> E.	JAN	26 19 40	27 2 20
1	FEB	28 17 14	28 12 51	<del></del> ,	FEB	10 <b>14</b> 2	10 15 10
10 21 6	MAR	30 5 58	30 4 57	10 14 33	MAR.	`	25 12 19
	, 0	14 0 20	14 6 38	10 14 99	APRIL	26 21 8 25 9 52	26 21 17 25 5 50
	APRIL	28 18 42	28 21 14		MAY.	24 22 36	24 14 50
	MAY.	28 7 26	28 12 53		June.	28 11 20	28 1 15
	JUNE. JULY.	26 20 10 26 8 54	27 3 17		July.	23 0 4	22 13 47
	Aug.	26 8 54 24 21 38	26 16 3		0	(6.18.26	6 20 59
	SEPT.	23 10 22	25 3 21		Aug.	21 12 48	21 4 89
	0	(8 4 44	23 13 47 7 17 54		SEPT	20 1 82	19 21 80
	Ocr	22 23 6	22 23 58		Oct	19 14 16	19 15 22
	Nov.	21 11 50	21 10 22		Nov.	18 8 0	18 9 4
	DEC	21 0 34	20 21 13	,	DEC	17 15 44	18 1 29
1015	_			1618.	JAN	(16 4 29	16 15 58
1615.	JAN.,	19 13 19	19 8 33	D.	0	80 22 51	80 16 44
11 2 55	FEB.	18 2 3	17 20 29		FEB	14 17 18	15 8 57
TT 7 99	MAR.,	19 14 47	19 9 12	10 20 22	Mar	16 5 57	16 18 58
	APRIL	18. 3 31	17 22 52		APRIL	14 18 41	14 22 10
	MAY . June .	17 16 15	17 13 30		MAY .	14 7 25	14 5 88
	JULY.	16 4 59	16 4 47		June .	12 20 9	12 13 8
	Aug.	15 17 43 14 6 27	15 20 8		JULY.	12 8 53	11 21 44
	SEPT.	12.19 11	14 10 53 13 0 42		Aug	10 21 87	10 8 39
	Ocr.	12 7 55	13 0 42 12 13 32		SEPT	9 10 21	8 22 24
	Nov.	10 20 39	11 1 33		Oct	8.28 5	8 14 56
	DEC.	10. 9 23	10 12 58		Nov	7.11 49	7 9 80
			12 00		Dec.	7 0 88	7 4 41

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ect.)	True New Moon.
A.D. 1619.		d. h. m.	d. h. m.	A.D. 1622.		d. h. m.	d. h. m.
March.	JAN.	5 13 18 4 2 2	5 22 57	F.	JAN	§ 2 4 27	1 20 3
d. h. m.	FER.		4 14 58			(81 17 11	81 12 50
11 2 10	MAR.	5 14 45	6 4 6	March.	FEB	•••	
	APRIL	4 3 29	4 14 31	d. h. m. 10 19 37	MAR	(2 5 55	2 6 80
	MAY.	3 16 13	8 22 41	10 10 31	MAK	(81 18 89	81 23 57
	June.	$\int 2  4  57$	2 5 38		APRIL	30 7 23	30 16 5
	0	16 23 19	17 2 22		MAY .	29 20 7	80 6 10
	July .	γ 1 17 41	1 12 21	1	JUNE.	28 8 51	28 <b>1</b> 8 0
İ	0011.	31 6 25	80 20 1		JULY.	27 21 85	28 3 59
	Aug	29 19 9	29 5 40	1	Aug.	26 10 19	26 12 56
	SEPT	28 7 53	27 18 6	1	SEPT.	24 23 8	24 21 45
	Ocr	27 20 37	27 9 39		Oct.	24 11 47	24 7 12
	Nov.	26 9 21	26 3 49		Nov.	23 0 31	
	0	(11 3 48	11 4 37		DEC.	22 18 15	
	DEC	25 22 5	25 28 21		DEC. ,	22 15 15	22 5 31
1000			20 20 21	1623.	JAN	21 1 59	20 18 39
1620.	JAN	24 10 50	24 18 84	E,	FEB	19 14 48	19 9 2
B.A.	FER	22 28 34	28 11 52	11 1 26	MAR	21 8 28	21 0 81
10 7 59	MAR.	23 12 18	24 2 17		0	( 4 21 50	5 6 80
ļ	APRIL	22 1 2	22 18 88		APRIL	19 16 12	19 16 82
	MAY .	21 13 46	21 22 26		MAY .	19 4 56	19 8 28
	0	16 8 8	5 8 10		June .	17 17 40	17 28 34
	JUNE .	20 2 30	20 5 89		July.	17 6 24	17 18 16
	JULY.	19 15 14	19 12 23		Aug.	15 19 8	16 1 80
	Aug.	18 8 58	17 19 45		SEPT.	(14 7 52	
	SEPT.	16 16 42	16 4 48			1 i	
i	Oct	16 5 26	15 16 5		0	1 -	28 18 86
	Nov.	(14 18 10	14 6 18		Oct.	18 20 86	18 28 4
	0	29 12 82	29 19 19		Nov	12 9 20	12 9 81
	DEC.	14 6 54			DEC	11 22 4	11 20 12
	J. 1.	14 0 94	18 28 10	1624.	JAN	10 10 48	10 7 14
1621.	JAN	<b>1</b> 2 19 38	12 17 48	D.C.	FEB	8 28 32	8 18 41
G.	FEB	11 8 22	11 12 49	10 7 15	MAR	9 12 16	9 6 41
10 13 48	MAR	12 21 6	18 6 41		0	24 6 88	24 20 22
	APRIL	11 9 50	11 22 13		APRIL	8 1 0	7 19 88
	Mar.	(10 22 84	11 10 55		MAY .	7 18 44	7 9 27
	0	25 16 56	25 8 42		JUNE .	6 2 28	6 0 20
	June .	9 11 18	9 21 0		July.	5 15 12	5 15 48
	July.	9 0 2	9 5 14	ļ	Aug.	4 8 56	4 6 58
	Aug.	7 12 46	7 12 43		SEPT.	2 16 40	2 21 28
	SEPT.	6 1 80	5 20 28	-	0	17 11 2	
	Oct.	5 14 14	5 5 28	ĺ			16 21 86
	Nov.	(4 2 58	8 16 7	į	Ocr	] - "	2 11 10
	0	18 21 20		}	NT	(81 18 8)	81 28 50
	DEC.	8 15 42			Nov.	80 6 52	80 11 48
	150	9 19 42	8 5 0	·	DEC	29 19 86	29 22 56
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ec!.)	Mean Vernal Equinox.	Month.	Mean New Moon, (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1625.	Т	d. h. m.	d. h. m.	A.D. 1628.		d. h. m.	d. h. m.
	JAN	28 8 21	28 9 31	1.2.	0	$\int 11 \ 5 \ 9$	10 23 26
March.	Гев	26 21 5	26 19 40	March.	JAN	25 23 31	26 11 22
d. h. m.	_ 0	$\int 18 \ 15 \ 27$	14 3 25	d. h. m.	FEB	24 12 15	25 1 57
10 13 3	MAR.	28 9 49	28 5 37	10 6 30	MAR	25 0 59	25 13 36
]	APRIL	26 22 33	26 16 0		APRIL	23 13 43	23 22 40
	MAY.	26 11 17	26 3 34		MAY .	23 2 27	23 6 1
ľ	JUNE.	25 0 1	24 16 46		JUNE.	21 15 11	21 12 40
	July.	24 12 45	24 7 38		0	6 9 33	6 13 7
	Aug	23 1 29	22 23 43		July.	21 3 55	20 19 44
	0	S 6 19 51	6 12 4		Aug	19 16 39	19 4 19
j	SEPT	$21\ 14\ 13$	21 16 15		SEPT	18 5 23	17 15 21
	Ост	21 2 57	21 8 24		Ост	17 18 7	17 5 26
j l	Nov	19 15 41	19 23 31		Nov	16 6 51	15 22 27
1	Dec	19 4 25	19 13 11		DEC	(15 19 35	15 17 30
			,		0	80 13 57	30 14 31
1626.	JAN	17 17 10	18 1 16			1	
A.	FEB	16 5 54	16 11 47	1629.	JAN	14 8 20	14.13 4
10 18 52	MAR	17 18 38	17 21 1	D,	FEB	12 21 4	18 7 26
	APRIL	16 7 22	16 5 28	10 12 19	MAR.	14 9 48	14 23 18
	MAY.	15 20 6	15 13 54		APRIL	12 22 32	13 12 5
	June.	14 8 50	13 23 20		MAY.	12 11 16	12 22 1
	JULY.	13 21 34	13 10 38		JUNE.	11 0 0	11 5 53
	Aug	12 10 18	12 0 21		JULY.	10 12 44	10 12 45
	SEPT	10 23 2	10 16 25		Aug	9 1 28	8 19 46
	Ocr	10 11 46	10 10 6		SEPT	7 14 12	7 8 56
	Nov	9 0 30	9 4 16		Oct	7 2 56	6 14 8
ŀ	DEC	8 13 14	8 21 39		Nov	<b>5 1</b> 5 <b>4</b> 0	5 2 58
					DEC	5 4 24	4 18 34
1627.	JAN.	7 1 58	7 13 13	1000			
G.	0	21 20 20	21 12 59	1630. c.	JAN	3 17 8	3 12 22
	FEB	5 14 42	6 2 27		FEB	2 5 52	2 7 14
11 0 41	MAR.	7 3 26	7 13 19	10 18 8	MAR.	3 18 36	4 1 41
	APRIL	5 16 10	5 22 9		APRIL	2 7 20	2 18 23
İ	MAY .	5 4 54	5 5 44		7.5	1 20 4	2 8 29
1	JUNE.	3 17 38	3 12 54		May O	16 14 26	16 7 4
	JULY.	3 6 22	2 20 46		T	131 8 48	31 19 48
1	0	18 0 44	18 8 31		JUNE.	29 21 32	30 4 55
	A	(1196	1 6 27		July.	29 10 16	29 12 46
	Aug	31 7 50	30 18 46		Aug.	27 28 0	27 20 26
	SEPT	29 20 34	29 10 2		SEPT	26 11 44	26 4 52
	Oct	29 9 18	29 3 51		Ост.	26 0 28	25 14 46
	Nov	27 22 2	27 23 4		Nov.	9 18 50	10 0 42
1	DEC.	27 10 46	27 18 4		DEC.	124 13 12	24 2 36
					aret.	24 \ 1 56	23 16 31
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Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ect.)	True New Moon. (O Full Ecl.)
A.D. 1631.		d. h. m.	d. h. m.	A.D. 1634.		d. h. m.	d. h. m.
В,	JAN	22 14 41	22 8 21	E.	JAN.	19 5 51	· ·
March. $d. h. m.$	FEB	21 8 25	21 1 27		FEB.	17 18 35	19 8 47
10 23 56	MAR.	22 16 9	22 18 54	March. d. h. m.	0	( 4 12 57	17 18 57
	APRIL	21 4 58	21 11 39	10 17 23	MAR.	19 7 19	4 22 57 19 4 40
	0	5 23 15	5 21 22	_	APRIL	17 20 3	17 14 29
	MAY .	20 17 37	21 2 46		MAY .	17 8 47	17 1 8
	JUNE .	19 6 21	19 15 46		JUNE .	15 21 31	15 13 18
1	JULY.	18 19 5	19 2 45		JULY .	15 10 15	15 3 17
į	Aug	17 7 49	17 12 20	!	Aug	ſ 1 <b>3</b> 22 59	13 18 55
İ	SEPT	15 20 33	15 21 21		0	28 17 21	28 11 57
	OUT	\( 15 \ 9 17	15 6 87		SEPT	12 11 43	12 11 32
	0	(30 3 39	30 1 32	]	Our	12 0 27	12 4 15
	Nov.	13 22 1	13 16 41		Nov	10 13 11	10 20 14
	DEC	18 10 45	18 8 53		DEC	10 1 55	10 10 52
				1635.	JAN.	8 14 39	8 23 49
1632.	JAN	11 23 29	11 16 <b>1</b> 5	æ,	FEB.	7 3 23	7 11 2
A.G.	FEB	10 12 18	10 5 47		0	21 21 45	21 22 44
10 5 45	MAR.	11 0 57	10 20 27	10 23 12	MAR.	8 16 7	8 20 43
1	APRII.	9 18 41	9 11 58		APRIL	7 4 51	7 5 16
	MAY.	121 8 8	24 14 28		MAY.	6 17 35	6 13 21
	JUNE .	9 2 25 7 15 9	9 8 52		JUNE .	5 6 19	4 22 0
	JULY.	7 15 9 7 8 58	7 19 24 7 9 56		July .	4 19 3	4 8 9
	Aug.	5 16 37	5 28 4		Aug	∫ B 7 47	2 20 36
	SEPT.	4 5 21	4 10 56		0	(18 2 9	18 4 37
	Oct.	(318 5	8 21 56		SEPT	1 20 31	1 11 36
	0	18 12 27	18 1 88		Ocr	1 9 15	1 4 45
	Nov	2 6 49	2 8 34		37	(80 21 59	30 23 4
	-	( 1 19 88	1 19 16		Nov.	29 10 48	29 17 11
	DEC	81 8 17	31 6 9		DEC	28 23 27	29 9 54
		· ·		1636,	JAN	27 12 12	28 0 24
1633.	JAN	29 21 2	29 17 14	C.B.	_0	11 6 84	11 0 45
F.	FEB	28 9 46	28 4 41	40	FEB.	26 0 56	26 12 20
10 11 84	Mar	29 22 80	29 16 46	10 5 1	MAR.	26 13 40	26 21 59
	APRIL	28 11 14	28 5 52		APRIL	25 2 24	25 5 55
	MAY .	27 28 58	27 20 5		MAY.	24 15 8	24 13 2
	June .	26 12 42	26 11 13		JUNE. JULY.	28 8 52 22 16 86	22 20 20   22 4 57
	July .	26 1 26	26 2 42			(6 10 58)	6 17 42
	Aug	21 14 10	24 17 54		Ava	21 5 20	20 15 52
	SEPT	28 2 54	23 8 18		SEPT.	19 18 4	19 5 43
	Ocr	22 15 88	22 21 48		Oct.	19 6 48	18 22 30
	Nov	21 4 22	21 10 13		Nov.	17 19 32	17 17 18
	DEC	20 17 6	20 21 49		DEC	17 8 16	17 12 42
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1637.		d. h. m.	d. h. m.	A.D. 1640.		d. h. m.	d. h. m.
March.	Jan	15 21 1	16 7 5	March.	JAN	13 12 11	13 4 24
d. h. m.	FEB	14 9 45	14 23 5	d. h. m.	FEB.	12 0 55	11 20 43
10 10 49	MAR.,	15 22 29	16 12 6	10 4 16	MAR	12 13 39	12 13 52
	APRIL	14 11 13	14 22 16		APRIL	11 2 23	11 6 54
	MAY.	13 23 57	14 6 15		MAY.	10 15 7	10 22 49
1	JUNE.	12 12 41	12 13 5		June.	9 3 51	9 12 55
	JULY.	12 1 25	11 19 49		JULY.	8 16 35	9 0 59
	Aug	10 14 9	10 8 82		AυG	7 5 19	7 11 22
	SEPT	9 2 53	8 13 20		SEPT	5 18 3	5 20 47
ļ	Oct	8 15 37	8 1 55		Oct	5 6 47	5 6 4
l i	Nov.	7 4 21	6 17 36		Nov	3 19 31	3 15 53
	DEC	6 17 5	6 11 48		DEC	3 8 15	3 2 36
	0	(21 11 27	21 13 36				4 44 40
1638.	JAN	5 5 49	5 7 18	1641.	JAN	1 20 59	1 14 18
G.	FEB	3 18 83	4 2 23	C.	777	(31 9 43	31 8 5
10 16 38	MAR.	5 7 17	5 19 32		FEB		4 40 55
	APRIL	3 20 1	4 9 48	10 10 5	MAR	1 22 27	1 16 55
	MAY.	3 8 45	3 21 2		_	(31 11 11	31 7 45
,	June.	(1 21 29	2 5 48		0	15 5 88	15 14 21 29 28 18
	0	16 15 51	16 9 42	ļ	APRIL MAY.	29 25 55	29 14 58
ļ	_	(1 10 13	1 13 4	l I	JUNE.	28 1 28	28 6 5
	JULY.	80 22 57	30 19 58		JULY.	27 14 7	27 20 6
	Aug	29 11 41	29 3 34		Aug	26 2 51	26 8 50
İ	SEPT	28 0 25	27 12 47		SEPT.	24 15 35	24 20 29
1	Ocr	27 13 9	27 0 20			(9 9 57	8 21 16
1	Nov	26 1 53	25 14 36		Ocr	24 4 19	24 7 81
1	0	(10 20 15	11 4 4		Nov.	22 17 3	22 18 21
	DEC	25 14 37	25 7 19		DEC	22 5 47	22 5 10
1639.	JAN	24 3 22	24 1 41	1642.	JAN.	20 18 32	20 16 5
F.	FEB	22 16 6	22 20 21	В,	FEB.	19 7 16	19 3 7
10 22 27	MAR	24 <b>4</b> 50	24 13 57	10 15 54	MAR.	20 20 0	20 14 83
	APRIL	22 17 34	23 5 19		0	( 4 14 22	5 4 4
	MAY.	22 6 18	22 17 59		APRIL	19 8 44	19 2 47
	0	§ 6 0 40	5 15 45		MAY .	18 21 28	18 16 13
	June.	20 19 2	21 4 10		June .	17 10 12	17 6 49
	JULY.	20 7 46	20 12 39		JULY.	16 22 56	16 22 13
	Aug	18 20 30	18 20 27		Aug	<b>15 11 4</b> 0	15 13 47
	SEPT	17 9 14	17 4 35		SEPT	ſ14 O 24	14 4 54
	Oct.	16 21 58	16 13 50		0	28 18 46	28 5 84
	Nov.	(15 10 42	15 0 45		Ост	13 13 8	13 19 9
	Dag	(30 5 4	30 13 3		Nov	12 1 52	12 8 21
	DEC.	14 23 26	14 13 37		DEC	<b>11 14 3</b> 6	11 20 35
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ect.)	True New Moon. (O Full Ecl.)
A.D. 1643.	JAN.	d. h. m.		A.D. 1646.		d. h. m.	d. h. m.
March.	70	10 3 21	1	J.	JAN	<b>6 18 30</b>	7 2 9
d. h. m.		8 16 5		March.	0	21 12 52	21 8 10
10 21 42	MAR.	<b>∫</b> 10 <b>4</b> 49		d. h. m.	FEB	5 7 14	5 19 27
	0	(24 23 11		10 15 9	MAR	6 19 58	7 9 55
l	APRIL	8 17 33	8 13 24		APRIL	5 8 42	5 21 22
ĺ	MAY .	8 6 17	7 23 18	1	MAY .	4 21 26	5 6 16
	June.	6 19 1	6 10 25	l]	JUNE .	8 10 10	3 18 28
	July.	6 7 45	5 23 23		JULY.	ſ 2 22 5 <u>4</u>	2 20 6
	Aug	4 20 29	4 14 15	ļ	0	17 17 16	17 19 39
	SEPT	3 9 13	3 6 38			(111 88	1 8 14
	0	18 8 85	17 20 8		Aug	81 0 22	30 11 57
	Ocr	2 21 57	2 23 41		SEPT.	29 13 6	_
		( 1 10 41	1 16 24		OCT.	29 1 50	
	Nov	80 28 25		1	Nov.		28 18 28
	DEC.	30 12 9	$\begin{cases} 1 & 7 & 59 \\ 30 & 21 & 56 \end{cases}$			27 14 34	27 6 28
		00 11	(80 21 80	1	DEC	27 3 18	27 1 28
1011	_		_	1647.	_	610 01 40	40.00.00
1644. G.F.	JAN	29 0 58	29 10 0	0.	0	10 21 40	10 28 28
1	FEB	27 13 37	27 20 17		JAN	\25 16 B	25 20 54
10 8 81	MAR.	28 2 21	28 5 8	10 00 50	FEB	24 4 47	24 15 6
	APRIL	26 15 5	26 13 8	10 20 58	MAR	25 17 81	26 6 48
	MAY.	26 3 49	25 21 12		APRIL	24 6 15	24 19 57
	JUNE.	24 16 83	24 6 22		MAY.	28 18 59	24 5 20
	JULY.	24 5 17	28 17 82		June .	22 7 48	22 13 15
	Aug	22 18 1	22 7 17		JULY.	21 20 27	21 20 16
	SEPT	21 6 45	20 28 88		Aug	20 9 11	20 8 81
	Oct	20 19 29	20 17 88		SEPT	18 21 55	18 11 57
	Nov	19 8 13	19 12 18	,	Ост	18 10 89	17 22 24
	DEC.	18 20 57	19 5 57		Nov	16 28 28	16 11 21
					DEC	16 12 7	16 2 51
1645.	T. 11	17 0 40	45 01 40				
E.	JAN.	17 9 42	{17 21 42   {81 21 16	1648.	Jan	15 0 52	14 20 24
	0	$\begin{cases} 1 & 4 & 4 \\ 17 & 22 & 22 \end{cases}$	'	B. A.	FEB	18 18 86	18 14 54
10 0 00	FEB.	(15 22 26)	16 10 52	10 2 47	MAR	14 2 20	14 9 0
10 9 20	MAR.	17 11 10	17 21 30		APRIL	12 15 4	18 1 28
	APRIL	15 28 54	16 6 2	1	MAY .	12 8 48	12 15 28
	MAY .	15 12 38	15 13 19	1	0	26 22 10	26 14 16
	June.	14 1 22	18 20 17	ĺ	June .	10 16 82	11 2 52
	1-	[18 14 6]	18 4 4	]	July .	10 5 16	10 12 12
	0	28 8 28	28 15 48		Aug.	8 18 0	8 20 28
	Aug	12 2 50	11 13 43		SEPT.	7 6 44	7 4 25
	SEPT	10 15 84	10 2 7	1	Ocr.	6 19 28	6 18 18
	Ocr	10 4 18	9 17 84		707	(5 8 12	4 28 24
	Nov	8 17 2	8 11 87			1	一、我 我 随着成为一个
	DEC	8 5 46	8 7 1		DEC.	1	20 8 48
			H		APRO	4 20 56	4 311 18
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1649.		d. h. m.	d. h. m.	A.D. 1652.		d. h. m.	d. h. m.
G.	JAN	3 9 40	3 1 2	D.C.	Tax	f 1 0 50	1 6 49
d. $h$ . $m$ .	${f F}_{{ m EB}}$ .	1 22 24	<b>1</b> 16 25		JAN.	\gamma30 13 34	30 17 35
10 8 35	Mar	3 11 8	<b>3</b> 8 59	March.	FEB	29 2 18	29 3 25
1	APRIL	1 23 52	2 1 57	d. h. m.	0	<b>514 20 40</b>	15 6 21
]		( 1 12 36	1 18 23	10 2 2	MAR	29 15 2	29 12 39
	May O	<b>1</b> 6 6 58	16 4 55		APRIL	28 3 46	27 21 57
		(31 1 20	31 9 25		MAY.	27 16 30	27 8 9
	June.	29 14 4	29 22 35		June.	26 5 14	25 20 0
	July.	29 2 48	29 9 55		JULY.	25 17 58	25 9 54
	Aug	27 15 32	27 19 58		Aug	24 6 42	24 1 42
	SEPT	26 4 16	26 5 29		0	$\int 8 1 4$	7 19 57
	Oct	25 17 0	25 15 11		SEPT	22 19 26	22 18 45
	0	$\int 9 11 22$	9 9 15		Ocr	22 8 10	22 12 0
ì	Nov	(24 5 44	24 1 33		Nov	20 20 54	21 4 29
	DEC.	23 18 28	23 12 45		DEC	20 9 38	20 19 28
				1653.	JAN	18 22 23	19 8 32
1650.	JAN	22 7 18	22 0 52	В.	FEB	17 11 7	17 19 37
¥.	FEB	20 19 57	20 13 54		0	f 4 5 29	4 6 12
10 14 24	MAR.	22 8 41	22 3 58	10 7 51	MAR	18 23 51	19 4 57
	APRIL	20 21 25	20 18 56		APRIL	17 12 35	17 18 5
	0	5 15 47	5 22 4		MAY .	17 1 19	16 20 50
	MAY.	120 10 9	20 10 25		June.	15 14 8	15 5 10
1	JUNE.	18 22 53	19 <b>1</b> 52		JULY.	15 2 47	14 15 8
	JULY.	18 11 37	18 16 35		Aug	$\int 13 \ 15 \ 81$	13 3 34
1	A.ug	17 0 21	17 6 11		0	28 9 53	28 12 23
1	SEPT.	15 13 5	15 18 38		SEPT	12 4 15	11 18 43
	Ocr	$\int 15 \ 1 \ 49$	15 6 12		Oct	11 16 59	11 12 11
1	-0	29 20 11	29 9 22		Nov.	10 5 43	10 6 51
1	Nov	13 14 33	13 17 19		DEC	9 18 27	10 1 21
1	DEC.	13 3 17	13 4 15	1654.	JAN	8 7 12	8 18 19
	1			A.	FEB	6 19 56	7 8 48
1651.	Jan	11 16 2	11 15 5		0	21 14 18	21 8 48
E.	FEB	10 4 46	10 1 51	10 13 39	MAR	8 8 40	8 20 84
10 20 13	MAR.	11 17 30	11 12 46		APRIL	6 21 24	7 5 56
	APRIL	10 6 14	10 0 16		MAY .	6 10 8	6 13 37
	MAY .	9 18 58	9 12 48		June.	4 22 52	4 20 80
	JUNE .		8 2 39		Jucy.	4 11 36	4 3 40
	JULY.		7 17 41		Aug	3 0 20	
	A.U.G.	1	6 9 22	H	~ 0	17 18 42	(010015
	SEPT		5 1 1		SEPT	1 13 4	·
	Oor.		4 16 1	H	Oct	1 1 48	1
	Nov.		3 6 8 2 18 58		1.	(30 14 82	
1	Dec	2 12 6	2 10 98		Nov.	29 3 16	1
!		I	I	 	Dec.	28 16 0	28 20 43

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1655.		d. h. m.	d. h. m.	A.D. 1658.		d. h. m.	d. h. m.
March.	JAN	27 4 44	27 15 7	c.	JAN.		
d. $h.$ $m$	FEB	25 17 28	26 7 2	March.	FEB.	23 19 54	23 12 41
10 19 28		27 6 12	27 19 54	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	MAR.	22 8 38 23 21 22	22 4 29
İ	APRIL	25 18 56	26 5 54		APRIL		23 21 6
į.	MAY .	25 7 40	25 13 44		MAY.	22 10 6	22 13 41
	JUNE .	28 20 24	28 20 80		JUNE.	21 22 50	22 5 25
	JULY.	23 9 8	28 8 17		July .	20 11 34	20 19 36
	Aug	21 21 52	21 11 10		Aug.	20 0 18 18 13 2	20 7 58
	SEPT	20 10 36	19 21 8		SEPT.	18 13 2 17 1 46	18 18 48
	Ост	19 23 20	19 9 54		Oct.	16 14 30	17 4 44
	Nov	18 12 4	18 1 39		Nov.		16 14 31
	DEC	18 0 48	17 19 49		DEC.		15 0 42
1					DEC	14 15 58	14 11 81
	0	f 1 19 11	1 22 85	1659.	T	10 4 10	40.00
1656.	JAN	16 18 38	16 15 12	В.	JAN	18 4 48	12 23 6
F.E.	FEB	15 2 17	15 10 6	10 18 44	FEB Mar	11 17 27	11 11 26
10 1 17	MAR	15 15 1	16 3 4			13 6 11	13 0 41
	APRIL	14 8 45	14 17 10		APRIL	11 18 55	11 14 54
}	MAY.	18 16 29	14 4 20		MAY.	11 7 90	26 22 4
	June.	∫12 5 18	12 13 8		June.	11 7 39	11 5 58
	0	126 28 85	26 16 16		JULY.	9 20 23	9 21 25
	JULY.	11 17 57	11 20 81		Aug.	9 9 7	9 12 38
	Aug	10 6 41	10 3 89		SEPT.	7 21 51	8 3 1
	SEPT	8 19 25	8 11 81			6 10 35	6 16 18
	Ocr	8 8 9	7 21 1		Ocr	$\begin{cases} 5 & 23 & 19 \\ 20 & 17 & 41 \end{cases}$	6 4 33
	Nov	6 20 58	6 8 46		Nov		20 5 6
	DEC	∫ 6 9 87	5 28 0		DEC.	4 12 3	4 16 6 4 3 16
	0	21 8 59	21 12 52		DEC	# 0 47	4 3 16
1657.	JAN	4 22 22	4 15 82	1660.	JAN	2 13 31	2 14 9
D.	FEB.	8 11 6	8 9 81	A.G.	FEB.	1 2 15	2 14 9 1 0 49
10 7 6	MAR.	4 28 50	5 8 48			(1 14 59	1 11 28
	APRIL	8 12 84	8 21 8	10 0 82	MAR	81 8 48	30 22 15
1	MAY.	8 1 18	8 12 16		0	(14 22 5	15 11 83
1	JUNE.	(114 2	2 0 57		APRIL	29 16 27	29 9 56
	0	16 8 24	15 22 45		MAY .	29 5 11	28 22 53
	1 1	(1 2 46	1 11 19		June .	27 17 55	27 13 16
	July .	80 15 80	80 20 6		July.	27 6 39	27 4 44
	Aug	29 4 14	29 4 16		Aug.	25 19 23	25 20 51
	SEPT.	27 16 58	27 12 49		SEPT	24 8 7	24 12 21
	Ocr	27 5 42	26 22 25		0	(9 2 29	8 13 42
	Nov.	25 18 26	25 9 80	1	Oct	23 20 51	24 3 13
		(10 12 48	10 21 22	ļ	Nov.	22 9 35	22 16 56
	- 1	25 7 10	24 22 17		DEC	21 22 19	22 5 28
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Mean Vernal Equinox.	Month.	Mean New , Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1661. F. March.	Jan	d. h. m. 20 11 4	d. h. m. 20 16 45	A.D. 1664. c.B.	JAN	d. h. m. 18 2 14	d. h. m. 18 10 9
d. h. m. 10 6 21	FEB MAR	18 23 48 20 12 32 ( 4 6 54	19 2 52 20 12 9 4 18 0	March. d. h. m. 9 23 47	FEB	1 20 36 16 14 58 17 3 42	1 16 50 17 3 25 17 17 45
	APRIL MAY.	19 1 16 18 <b>1</b> 4 0	18 21 5 18 6 30		APRIL MAY.	15 16 26 15 5 10	16 5 2 15 18 46
	JUNE . JULY .	17 2 44 16 15 28	16 17 15 16 6 2		June. July.	13 17 54 13 6 38	18 20 56 18 8 86
	Aug Sept	15 4 12 (13 16 56 28 11 18	14 21 0 13 13 40 28 4 22		Aug Sept	11 19 22 10 8 6	28 2 15 11 10 51 9 19 46
The state of the s	Oct Nov	13 5 40 11 18 24	13 7 11 12 0 26		Oct Nov	9 20 50 8 9 84	9 7 10 7 21 29
1000	Dec	11 7 8	11 16 27	1665.	DEC JAN	7 22 18	7 14 83 6 9 26
1662. E. 10 12 10	JAN FEB MAR	9 19 58 8 8 37 9 21 21	10 6 37 8 18 37 10 4 38	A.	O FEB	21 5 25 4 28 47	21 8 21 5 4 41
	APRIL MAY.	8 10 5 7 22 49	8 13 6 7 20 45	10 5 36	Mar April	6 12 31 5 1 15	6 22 38 5 14 9
	JUNE . JULY . Aug	6 11 33 6 0 17 4 13 1	6 4 31 5 13 26 4 0 32		MAY . JUNE . JULY .	4 13 59 8 2 48 2 15 27	5 2 48   8 12 86   2 20 87
	SEPT	3 1 45 2 14 29	2 14 22 2 6 53		Aug	$  \begin{cases}  1 & 4 & 11 \\  30 & 16 & 55  \end{cases} $	1 8 51 80 11 28
	Nov	30 15 57	1 1 18 30 20 14	ř	SEPT OCT Nov	29 5 89 28 18 28 27 7 7	28 20 8   28 6 49   26 19 50
1663.	DEC	30 4 41 28 17 25	30 14 13 29 6 3	,	Dec.	26 19 51	26 19 50 26 11 11
D.	O Feb.	12 11 47 27 6 9	29 6 3 12 5 26 27 19 7	1666. G. 10 11 25	JAN FEB MAR	25 8 85 28 21 19 25 10 8	25 4 28 28 22 27 25 16 11
10 17 59	MAR APRIL MAY .	28 18 53 27 7 37 26 20 21	29 5 31 27 13 48	20	APRIL MAY.	23 22 47 23 11 31	24 8 28 28 22 19
	JUNE . JULY .	25 20 21 25 9 5 24 21 49	26 20 50 25 3 39 24 11 23			7 5 53	6 21 25 22 9 52
	O Aug Sept	8 16 11 23 10 33	8 22 35 22 21 6		JULY . AUG SEPT	21 12 59 20 1 43 18 14 27	21 19 29 20 4 2 18 12 80
	OCT Nov	21 23 17 21 12 <b>1</b> 20 0 45	21 9 38 21 <b>1</b> 15 19 19 27		Oct Nov	18 <b>3</b> 11 16 15 55	17 21 42 16 8 7
٠ .	DEC	19 13 29	19 14 59	v	DEC.	1 10 17 16 4 89	1 16 56 15 20 3

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A D		<del></del>	l				
A.D. 1667.	Jan	d. h. m. 14 17 24	d. h. m.	A.D. 1670.		d. h. m.	d. h. m.
March.	1		14 9 32	March.	JAN	11 8 34	11 15 41
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
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d. h. m. 10 15 0	Mar	{ 2 7 32	2 11 22	10 8 26	MAR	28 11 26	29 1 24
		\\ 131 20 16	31 20 12		APRIL	27 0 10	27 12 33
	0	{15 14 <b>38</b>	16 1 10		MAY .	26 12 54	26 21 12
	APRIL	(30 a 0	80 4 40		June .	25 1 38	25 4 21
	MAY.	29 21 44	29 13 40		JULY.	24 14 22	24 11 8
	June.	28 10 28	28 0 9		0	∫ 8 8 44	8 8 56
	July.	27 23 12	27 12 49		Aug	123 3 6	22 18 36
	Aug	26 11 56	26 8 51		SEPT	21 15 50	21 3 44
	SEPT	25 0 40	24 20 51	1	Oct	21 4 84	20 15 19
	0	$\begin{cases} 9 & 19 & 2 \\ 24 & 13 & 24 \end{cases}$	9 12 45		Nov	19 17 18	19 5 42
	Oct	124 18 24	24 14 49		DEC	19 6 2	18 22 42
	Nov	28 2 8	28 8 83	1683.	JAN	17 18 46	17 17 22
	DEC	22 14 52	23 0 55	G.	0	(1138	1 17 8
1680.	JAN	21 3 36	21 15 11		FEB	16 7 80	16 12 18
D.C.	FEB	19 16 20	20 3 5	10 14 15	MAR.	17 20 14	18 6 0
9 20 49	MAR	20 5 4	20 12 50		APRIL	16 8 58	16 21 20
	APRIL	18 17 48	18 20 58		MAY .	15 21 42	16 9 50
	MAY.	18 6 32	18 4 17		June .	14 10 26	14 19 47
	June .	16 19 16	16 11 47		JULY .	∫13 23 10	14 3 59
	JULY.	16 8 0	15 20 34		0	128 17 32	28 9 27
	Aug	14 20 44	14 7 89		Aug	12 11 54	12 11 31
	SEPT	13 9 28	12 21 35		SEPT	11 0 88	10 19 23
	Oct	12 22 12	12 14 21		Oct	10 13 22	10 4 48
	Nov	11 10 56	11 9 2		Nov	9 2 6	8 15 21
	DEC	10 28 40	11 4 16		DEC	8 14 50	8 4 22
1681.	JAN	9 12 25	9 22 26	1684.	JAN	7 8 85	6 19 31
в.	FEB	J 8 1 9	8 14 17	F.E.	FEB	5 16 19	5 12 18
	0	122 19 81	22 13 32	9 20 4	MAR	6 5 8	6 5 58
10 2 88	MAR	9 13 58	10 8 18		APRIL	4 17 47	4 23 12
	APRIL	8 2 87	8 13 24		MAY .	4 6 81	4 15 11
	MAY.	7 15 21	7 21 28		JUNE .	$\int 2 19 15$	8 5 9
	June.	6 4 5	6 4 19		0	17 18 87	17 4 84
	July.	5 16 49	5 11 5		JULY .	$\begin{cases} 2 & 7 & 59 \end{cases}$	2 16 53
1	Aug	<b>4 5 33</b>	8 18 50			181 20 43	f 1 2 50
	0	18 28 55	19 5 43		Aug	80 9 27	<b>30 11 50</b>
	SEPT	2 18 17	2 4 40		SEPT	28 22 11	28 20 45
	Oct	{2 7 1	1 17 20		Ocr	28 10 55	28 6 20
		181 19 45	81 9 6		Nov	26 28 39	26 16 57
	Nov	80 8 29	80 8 25		20.	{11 18 1	12 1 7
	DEC	29 21 18	29 22 57		DEC	126 12 28	26 4 48
	ı	1	I	11	·	1 1	1 1 1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1685.		d. h. m.	d. h. m.	A.D. 1688.		d. h. m.	d. h. m.
March.	JAN	25 1 8	24 17 59	A.G.	JAN	22 16 17	28 0 28
d. h. m.	FEB	23 13 52	23 8 22	March. $d. h. m.$	FEB	21 5 1	21 10 51
10 1 53	MAR	25 2 36	24 23 45	9 19 19	MAR	21 17 45	21 19 56
1	APRIL	23 15 20	28 15 48	1	0	(5127	5 20 88
	MAY.	23 4 4	23 7 35		A.PRIL	20 6 29	20 4 17
	0	6 22 26	6 19 51		MAY .	19 19 13	19 12 42
	JUNE.	21 16 48	21 22 35		June .	18 7 57	17 22 10
	JULY.	21 5 32	21 12 16	j	JULY .	17 20 41	17 9 85
	Aug	19 18 16	20 0 30		Aug	16 9 25	15 28 28
	SEPT	18 7 0	18 11 36		SEPT	(14 22 9	14 15 42
	Ост	17 19 44	17 22 11		0	<b>29 16 81</b>	29 12 18
	Nov	16 8 28	16 8 41		Oct	14 10 58	14 9 41
	_ 0	$\begin{cases} 1 & 250 \end{cases}$	1 1 1		Nov	12 28 37	18 8 46
	DEC	(15 21 12	<b>15</b> 19 27		DEC	12 12 21	12 21 7
4000				1689.	JAN.	11 1 5	11 12 85
1686. c.	JAN	1 <b>4</b> 9 56	14 6 29	F.	FEB.	9 13 49	10 1 40
	Fев	12 22 40	12 17 53	10 1 8	MAR.	(11 2 84	11 12 20
10 7 42	MAR	1 <b>4</b> 11 24	<b>1</b> 4 5 49		0	25 20 56	25 20 48
	APRIL	13 0 8	12 18 38		APRIL	9 15 18	9 21 2
	MAY .	$\int 12 \ 12 \ 52$	12 8 31		May.	9 4 2	9 4 29
	•	27 7 14	27 13 7		June .	7 16 46	7 11 87
	JUNE .	11 1 36	10 23 24		JULY.	7 5 80	6 19 84
	JULY.	10 14 20	10 14 48		Aug.	5 18 14	5 5 22
	A.UG	9 3 4	.9 6 5		SEPT.	(4 6 58	8 17 58
	SEPT.	7 15 48	7 20 42		i a	19 1 20	19 4 14
	Oct.	7 4 32	7 10 21		Oct.	3 19 42	8 9 23
	Nov.	5 17 16	5 23 5		Nov.	2 8 26	2 8 28
	DEC.	(20 11 38	20 1 23		1.	1 21 10	1 22 40
1	DEC.	5 6 0	5 10 58		DEC.	81 9 54	81 17 87
1687.	Tuss	0.45		1690.			
B.	JAN.	3 18 45	3 22 11	E.	JAN.	29 22 38	80 10 46
10 13 31	FEB MAR	2 7 29	2 8 43		FEB	$\binom{28\ 11\ 22}{15\ 5\ 44}$	1 1 9
01	APRIL	3 20 13	3 18 44	10 6 57			15 0 16
		2 8 57	2 4 35		APRIL	1	80 12 <b>84</b> 28 21 29
1	MAY .	1 21 41	1 14 57		MAY.		
	JUNE.	(31 <b>1</b> 0 25 29 23 9	31 2 31		_		
	July .	29 23 9 29 11 53	29 15 47		_		26 11 22   25 18 <b>80</b>
] '	A.UG.	28 0 37	29 6 45		A.UG.		24 8 14
	SEPT.	26 13 21	27 22 52		0	8 10 9	8 15 50
	Ocr.	26 2 5	26 15 34		~ 2		22 14 28
	Nov.	24 14 49	26 7 46		_   `		22 4 47
	DEC.	24 3 33	24 22 53				20 22 0
	- 1	0 00	24 12 31		<b>T</b>	20	20 22 0
					•	10 40	40 Tt

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1691.		d. h. m.	d. h. m.	A.D. 1694.		d. h. m.	d. h. m.
March.	JAN	19 7 27	19 12 37	G.	0	(1 4 15	1 13 57
d. h. m	FEB	17 20 11	18 6 50	March.	JAN.	(15 22 37	15 15 33
10 12 46		19 8 55	19 22 29	d. h. m.	FEB.	14 11 21	14 5 5
	APRIL	17 21 39	18 11 3	10 6 12	MAR.	16 0 5	15 19 43
1	MAY .	17 10 23	17 20 48		APRIL	14 12 49	14 11 10
1	JUNE .	15 23 7	16 4 35		MAY .	14 1 33	1
1	JULY .	15 11 51	15 11 27		JUNE .	(12 14 17	14 2 59 12 18 27
	Aug	14 0 35	18 18 33		0	27 8 39	27 3 1
	SEPT	12 13 19	12 2 52		JULY.	12 8 1	
1	Oct	12 2 3	11 13 16		Aug.	10 15 45	40.00
	Nov	10 14 47	10 2 18	1	SEPT.	9 4 29	
	DEC	10 3 31	9 18 2		Oct.	8 17 18	
					Nov.	7 5 57	-
1692.	JAN	( 8 16 16	8 11 55		DEC.	6 18 41	7 7 45 6 18 30
С.В.	0	23 10 38	23 16 21		ĺ	0 10 41	0 10 00
	FEB.	7 5 0	7 6 45	1695.	JAN	5 7 26	5 5 24
9 18 85	MAR.	7 17 44		F.	FEB	3 20 10	3 16 27
3 23 60	APRIL	6 6 28	8 1 4 6 17 84	10 12 1	MAR	5 8 54	5 8 49
	MAY.	5 19 12	6 7 29		APRIL	8 21 38	8 15 51
	JUNE .	4 7 56	4 18 38		MAY.	3 10 22	8 4 56
	July.	( 3 20 40	4 8 41		0	(18 4 44	18 13 9
l	0	18 15 2	18 5 84		June.	1 28 6	1 19 8
ļ		(2 9 24	2 11 88		July.	j 1 11 50	1 10 18
1	Aug	81 22 8	31 19 19			(31 0 34	<b>3</b> 1 1 48
	SEPT	80 10 52	80 8 51		Aug	29 13 18	29 17 2
	Oct.	29 23 36	29 13 56		SEPT	28 2 2	28 7 30
	Nov.	28 12 20	28 1 55		Oct	27 14 46	27 20 58
	DEC	28 1 4	27 15 56		,, o	[11 9 8	10 21 11
		_			Nov	(26 8 80	26 9 80
		(11 19 27	12 6 15		DEC	25 16 14	25 21 8
1693.	JAN	26 18 49	26 7 47	1696.	Jan	24 4 59	24 7 57
A.	FEB	25 2 83	25 0 51	E.D.	FEB	22 17 48	22 18 2
10 0 24	MAR.	26 15 17	26 18 12	9 17 50	MAR	23 6 27	23 8 40
	APRIL	25 4 1	25 10 49		Arril	21 19 11	21 13 25
	MAY .	24 16 45	25 1 49		0	∫ 6 13 83	7 2 11
	June .	28 5 29	28 14 42		MAY .	21 7 55	21 0 4
	0	7 28 51	7 12 52		June.	19 20 89	19 12 17
	July.	22 18 18	23 1 38		JULY .	19 9 28	19 2 21
	Aug.	21 6 57	21 11 12		Aug	17 22 7	17 18 6
	SEPT.	19 19 41	19 20 19		SEPT	16 10 51	16 10 50
	Ocr.	19 8 25	19 5 42		Ocr	15 28 85	16 8 38
1	Nov.	17 21 9	17 15 58		~°	80 17 57	80 624
	DEC.		17 8 10		Nov.	9.532	14 19 88
	•	3 30			Dac	14 1 8	14 10 14
					1		Secretary and the

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon.
A.D. 1697. c.	Jan.	d. h. m. 12 13 48	d. h. m. 12 23 6	A.D. 1700. G.F.	_	d. h. m.	d. h. m.
March.	FEB.	11 2 32		d.r.	JAN	10 4 57	10 6 53
d. h. m. 9 23 39	MAR.	12 15 15	11 10 11	March.	FEB	8 17 41	9 1 52
0 20 00	APRIL	(11 8 59	12 19 42 11 4 7	d. h. m.	0	23 12 3	23 9 54
	O	25 22 21		9 17 5	MAR	9 6 25	9 18 49
	MAY.	10 16 43	26 7 57		APRIL	7 19 9	8 8 52
	JUNE.		10 12 10		MAY .	7 7 58	7 19 55
	JULY.		8 20 49		June.	5 20 37	6 4 34
	Aug.	8 18 11	8 7 3		JULY.	5 9 21	5 11 47
	SEPT	7 6 55	6 19 38		Aug	∫ 3 22 5	8 18 44
	Oct	5 19 39	5 10 50		0	(18 16 27	18 15 40
	0	5 8 23	5 4 9		SEPT	2 10 49	2 2 27
	Nov	20 2 45	19 21 14		Ост	1 23 33	1 11 51
	DEC.	3 21 7	3 22 34			(31 12 17	30 23 37
	DEC.	8 9 51	3 16 42		Nov	30 1 1	29 14 1
1000	_	(12236	2 9 21		DEC	29 13 45	29 6 51
1698. в.	JAN	31 11 20	31 23 41	1701.	JAN	28 2 30	28 1 14
	FEB			E.		(11 20 52	12 1 51
10 5 28		(204	2 11 27		O Feb	26 15 14	26 19 48
10 5 28	MAR	31 12 48	31 20 55	9 22 54	Mar.	28 3 58	28 13 12
	APRIL	30 1 32	30 4 43	0 22 04	APRIL	26 16 42	27 4 28
	MAY .	29 14 16	29 11 46		MAY.	26 5 26	26 16 58
	JUNE.	28 3 0	27 19 5		June .	24 18 10	25 2 58
	JULY.	27 15 44	27 3 48		JULY.	24 6 54	24 11 25
	Aug	26 4 28	25 14 55		0	(8 1 16	7 16 11
}	SEPT	24 17 12	24 4 59		Aug	22 19 38	22 19 17
	Ост	24 5 56	23 21 58		SEPT	21 8 22	21 8 82
	Nov	22 18 40	22 16 54		Oct	20 21 6	20 12 56
1	DEC	22 7 24	22 12 18		Nov.	19 9 50	19 0 1
ļ					DEC	18 22 34	18 12 59
1699.	JAN	20 20 . 9	21 6 34		1		
Α,	FEB	19 8 53	19 22 22	1702.	JAN	17 11 18	17 4 9
1.0 44 4-	. 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 21 31	D.	FEB	16 0 2	15 20 6
10 11 17	MAR.	(20 21 37	21 11 11	10 4 43	MAR	17 12 46	17 18 11
	APRIL	19 10 21	19 21 8		APRIL	16 1 80	16 6 6
	MAY .	18 23 5	19 5 1		MAY .	15 14 14	15 21 58
1	JUNE .	17 11 49	17 11 47		June .	14 2 58	14 11 52
	JULY.	17 0 33	16 18 32		JULY.	13 15 42	18 28 52
	Aug.	15 13 17	15 2 24		Aug	12 4 26	12 10 15
	O Super	30 7 39	30 12 57		SEPT	10 17 10	10 19 48
	SEPT	14 2 1	13 12 23		Ост	10 5 54	10 5 6
	Nov.	13 14 45	13 1 12		Nov	8 18 38	8 15 2
	DEC.	12 3 29	11 17 4		DEC	∫ 8 7 22	8 1 50
	DEC.	11 16 13	11 11 24		0	23 1 44	23 9 16
		-	1		l ——————		

Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon,
Equinox.		(O Full Ecl.)	(O Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
A.D. 1703.		d. h. m.	d. h. m.	A.D. 1706.		d. h. m.	d. h. m.
C. Manch	JAN	6 20 7	6 13 36	F.	Jan	3 11 16	3 21 14
d. $h.$ $m.$	FEB	5 8 51	5 2 21	$\begin{array}{cccc} \text{March.} \\ d. & h. & m. \end{array}$	FEB	2 0 0	2 9 10
10 10 32	Mar	6 21 35	6 16 10	10 8 58	MAR	3 12 45	3 19 19
	APRIL	5 10 19	5 6 57		APRIL	(2 1 29	2 4 1
	MAY.	4 23 3	4 22 26		0	16 19 51	17 3 36
	June .	∫ 3 11 47	3 14 3		MAY.	ſ 1 14 18	1 11 56
	0	18 6 9	18 3 17		MIAY.	31 2 57	30 19 59
	July.	8 0 31	3 5 8		JUNE .	29 15 41	29 5 12
	Aug	ſ 1 13 15	1 19 7		JULY.	29 4 25	28 16 30
	AUG	\31 1 59	31 7 52		Avg	27 17 9	27 6 25
	SEPT	29 14 48	29 19 35		SEPT	26 5 58	25 22 55
	Ост	29 3 27	29 6 41		0	£11 0 15	10 20 42
	Nov	27 16 11	27 17 81		Ocr	25 18 87	25 17 8
	0	∫12 10 88	12 8 57		Nov	24 7 21	24 11 46
	Dec	27 4 55	27 4 25		DEC	28 20 5	24 5 26
				1707.	JAN	22 8 49	22 21 2
1704.	JAN	25 17 40	25 15 18	E.	FEB	20 21 83	21 10 2
B.A.	FEB	24 6 24	24 2 16	10 9 47	MAR.	22 10 18	22 20 30
9 16 21	MAR.	24 19 8	24 13 86	20 0 21	0	(6 4 40	6 3 49
	APRIL	23 7 52	28 1 49		APRIL	20 28 2	21 4 52
	MAY.	22 20 36	22 15 14		MAY.	20 11 46	20 12 2
	0	6 14 58	6 20 34		June .	19 0 30	18 19 1
	June .	21 9 20	21 5 52		July.	18 18 14	18 2 51
	JULY.	20 22 4	20 21 19		Aug.	17 1 58	16 12 40
	Aug.	19 10 48	19 12 56		SEPT.	(15 14 42	15 1 17
	SEPT	17 23 32	18 4 6		0	80 9 4	80 12 22
	Oct	17 12 16	17 18 24		Ocr	15 8 26	14 16 58
	Nov	(16 1 0	16 7 89		Nov.	18 16 10	18 11 10
	0	30 19 22	80 9 84		DEC.	18 4 54	18 6 88
	DEC	15 13 44	15 19 52	1708.	JAN.	11 17 88	12 1 42
				D.C.	777	10 6 22	10 18 49
1705.	JAN	14 2 28	14 7 6	9 15 36	MAR.	(10 19 6	11 9 6
G.	FEB	12 15 12	12 17 24	0 20 00	MAR.	25 18 28	25 7 58
9 22 10	MAR.	14 3 56	14 2 58		APRIL	9 7 50	9 20 19
	APRIL	12 16 40	12 12 19		MAY .	8 20 84	9 5 2
	MAY.	12 5 24	11 22 10		JUNE .	7 9 18	7 12 11
	June .	10 18 8	10 9 20		JULY.	6 22 2	6 18 48
	July.	10 6 52	9 22 28		Aug.	5 10 46	5 2 2
	Aug.	8 19 86	8 13 28		SEPT.	6 28 80	8 10 55
	SEPT.	7 8 20	7 5 58		O O	18 17 52	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Ост	6 21 4	6 23 2		OCT.	8 12 14	2 22 20
	Nov.	5 9 48	5 15 47		Nov.	2 0 58	1 12 46
	DEC	4 22 32	5 7 22		1,0,, ,	(1 18 42	161
					Dec	81 2 26	NEO AMERIKAN PENGAN PENGAN
		į.	1	1	1	(OI 2 20	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.
A.D. 1709.		d. h. m.	d. h. m.	A.D. 1712.		d. h. m.	d. h. m.
в.	JAN	29 15 11	29 20 27	F.E.		(12 11 59	12 22 10
March. d. h. m.	FEB	28 3 55	28 14 29		JAN.	27 6 21	27 0 8
9 21 25	MAR.	29 16 39	30 5 57	March.	FEB	25 19 5	25 18 9
	APRIL	28 5 23	28 18 24	d. h. vi. 9 14 52	MAR.	26 7 49	26 8 9
	MAY .	27 18 7	28 4 8		APRIL	24 20 33	24 18 4
	June.	26 6 51	26 11 58		MAY.	24 9 17	24 9 82
	July.	25 19 35	25 19 0		JUNE .	22 22 1	28 0 55
	Aug.	24 8 19	24 2 21		0	( 7 16 28	7 10 26
	SEPT	22 21 3	22 10 56		JULY .	22 10 45	22 15 88
	Ocr	22 9 47	21 21 35		Aug.	20 28 29	21 5 15
	Nov	20 22 31	20 10 42		SEPT	19 12 13	19 17 44
	Dec	20 11 15	20 2 20		Oct	19 0 57	19 5 22
					Nov.	17 18 41	17 16 32
1710.	JAN	19 0 0	18 19 55		DEC	17 2 25	17 8 29
Α.	0	( 2 18 22	3 1 6	4=40	_		
	FEB	17 12 44	17 14 22	1713.	JAN	15 15 10	15 14 18
10 3 14	MAR	19 1 28	19 8 21		FEB	14 3 54	14 1 0
	APRIL	17 14 12	18 0 38	9 20 40	MAR	15 16 <b>8</b> 8	15 11 51
	MAY .	17 2 56	17 14 27		APRIL	14 5 22	18 28 17
	June .	15 15 40	16 1 43		MAY .	18 18 6	18 11 49
	JULY.	(15 4 24	15 10 59		-0	128 12 28	28 20 85
	0	29 22 46	29 12 19	,	Јиме.	12 6 50	12 1 41
	AUG	13 17 8	13 19 12	·	JULY.	11 19 84	11 16 45
	SEPT	12 5 52	12 3 20		Aug	10 8 18	10 8 80
	Ост	11 18 36	11 12 15	i	SEPT	8 21 2	9 0 14
	Nov	10 7 20	9 22 35		Oct.	8 9 46	8 15 17
	Dec	9 20 4	9 10 37		Nov.	6 22 80	7 5 21
					DEC.	21 16 52	21 5 26
1711.	JAN	r 8 8 48	8 0 25			6 11 14	6 18 16
G.	0	23 3 10	23 14 51	1714.	JAN.	4 28 58	5 6 8
	FEB	6 21 32	6 15 50	С.	FEB	8 12 42	8 16 44
10 9 3	MAR.	8 10 16	8 8 20	10 2 29	MAR	5 1 26	5 2 27
	APRIL	6 23 0	7 1 13		APRIL	8 14 10	8 11 85
j	MAY .	6 11 44	6 17 32		MAY .	8 2 54	2 20 51
	JUNE.	5 0 28	5 8 27			(17 21 16	18 9 18
	JULY.	f 4 13 12	4 21 32		June.	1 15 38	1 7 2
	. 0	19 7 34	18 20 0		JULY .		80 18 58
	Aug.	3 1 56	8 8 50	İ		80 17 6	80 9 0
	SEPT	1 14 40	1 18 54		AUG	29 5 50	29 0 56
	Ocr	$\begin{cases} 1 & 3 & 24 \\ 02 & 13 & 24 \end{cases}$	1 4 30		SEPT.	27 18 84	27 18 5
	Nor-	30 16 8	30 14 19		Ocr.	27 7 18	27 11 25
	Nov Dec	29 4 52	29 0 47		Nov.	11 1 40	10 14 58
	JEC	28 17 36	28 12 1		Nov T	25 20 2	26 8 56
<u> </u>					DEC.	25 8 46	25 18 50

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1715. B. March. d. h. m. 10 8 18	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT	d. h. m. 28 21 81 22 10 15 28 22 59 22 11 48 7 6 5 22 0 27 20 18 11 20 1 55 18 14 89 17 8 28	d. h. m. 24 7 48 22 18 44 24 8 54 22 11 55 7 14 45 21 19 86 20 8 58 19 14 8 18 2 39 16 17 59	A.D. 1718. E. March. d. h. m. 10 1 44	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O	d. h. m. 20 12 41 19 1 25 5 19 47 20 14 9 19 2 58 18 15 37 17 4 21 16 17 5 (15 5 49 30 0 11	(O Full Ect.)  d. h. m.  20 14 46 19 9 38 5 18 15 21 2 19 19 16 18 19 8 12 17 11 58 16 19 52 15 2 27 29 22 38
1716.	Oct O Nov DEC	16 16 7 81 10 29 15 4 51 14 17 85 18 6 19	16 11 87 81 5 58 15 6 28 15 0 58 18 17 48	1719.	SEPT OCT Nov DEC	18 18 38 18 7 17 11 20 1 11 8 45 9 21 29	13 10 27 12 20 8 11 8 3 10 22 26
9 14 7	FEB. MAR. APRIL MAY. JUNE. JULY. AUG. SEPT. OCT. NOV. DEC.	11 19 8 12 7 47 10 20 81 10 9 15 8 21 59 8 10 48 6 28 27 5 12 11 5 0 55 8 18 89 8 2 28	12 8 8 12 19 87 11 4 49 10 12 21 8 19 11 8 2 25 6 11 7 4 22 18 4 12 38 8 5 41 8 0 47	D. 10 7 88	FEB  O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT	$ \begin{cases} 8 \ 10 \ 13 \\ 28 \ 4 \ 35 \\ 9 \ 22 \ 57 \\ 8 \ 11 \ 41 \\ 8 \ 0 \ 25 \\ 6 \ 18 \ 9 \\ 6 \ 1 \ 53 \\ \begin{cases} 4 \ 14 \ 37 \\ 19 \ 8 \ 59 \\ 8 \ 8 \ 21 \\ 2 \ 16 \ 5 \end{cases} $	8 8 59 28 10 24 10 8 10 8 20 16 8 11 18 6 28 49 6 10 7 4 18 58 18 28 8 8 9 § 2 11 49
1717. F.	JAN Feb	1 15 8 81 8 52  1 16 86	1 20 20 81 14 88  2 6 17		Nov Dec	1 4 49 80 17 88 80 6 17	\\ \text{81 21 32} \\ \text{30 8 46} \\ \text{29 21 37} align*
9 19 56	MAR. O APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	16 10 58 31 5 20 29 18 4 29 6 48 27 19 32 27 8 16 25 21 0 9 15 22 24 9 44 28 22 28 22 11 12 21 28 56	16 5 28 81 18 56 80 4 44 29 12 29 27 19 18 27 2 4 25 10 8 9 20 17 28 20 18 28 9 12 22 1 8 21 19 25	1720. с.в. 9 18 22	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	28 19 2 27 7 46 27 20 80 26 9 14 25 21 58 24 10 42 28 28 26 22 12 10 21 0 54 20 18 38 19 2 22 18 15 6	28 12 4 27 8 50 27 20 21 26 12 52 26 4 29 24 18 84 24 6 58 22 17 44 21 8 44 20 18 87 18 28 58 18 10 46

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ect.)
A.D. 1721.		d. h. m.	d. h. m.	A.D. 1724.		d. h. m.	d. h. m.
Α.	0	ſ 2 9 28	2 17 24	E.D.	JAN	14 19 0	15 5 55
March.	JAN	17 3 51	16 22 21	d. h. m.	FEB	13 7 44	13 17 46
d. h. m.	FEB	15 16 35	15 10 <b>4</b> 0	9 12 37	MAR	13 20 29	14 3 38
9 19 11	MAR.	17 5 19	16 23 52		APRIL	(12 9 13	12 11 58
	APRIL	15 18 3	15 14 3		0	27 3 35	27 10 24
	MAY.	15 6 47	15 5 4		MAY .	11 21 57	11 19 31
1	June.	j 13 19 31	13 20 29		June.	10 10 41	10 3 16
	0	128 13 53	28 10 43		JULY.	9 23 25	9 12 17
	July.	13 8 15	13 11 41		Aug	8 12 9	7 23 32
	Aug	11 20 59	12 2 5		SEPT	7 0 53	6 13 34
	SEPT	10 9 43	10 15 24		Ocr	6 13 37	6 6 17
	Oct	9 22 27	10 3 42		0	21 7 59	21 5 15
	Nov	8 11 11	8 15 19		Nov	5 2 21	5 0 49
	DEC	∫ 7 23 55	8 2 31		DEC	4 15 5	4 19 48
	0	122 18 17	22 16 55	1725.	JAN	3 3 50	8 13 44
1722.	JAN	6 12 39	6 13 23	C.	FEB	1 16 34	2 5 25
G.	FEB	5 1 23	4 23 59	9 18 26	MAR	3 5 17	3 18 15
10 1 0	MAR.	6 14 7	6 10 29		APRIL	(1181	2 4 28
	APRIL	5 2 51	4 21 16		0	16 12 23	16 10 48
	MAY.	4 15 35	4 8 55		М	(1 6 45	1 12 35
	JUNE.	(3 4 19	2 21 53		MAY .	(30 19 29	30 19 33
	0	17 22 41	18 3 57		June .	29 8 13	29 2 22
	JULY.	2 17 3	2 12 20		JULY.	28 20 57	23 10 12
	λ	1 5 47	1 3 52		Aug	27 9 41	26 20 5
ļ	Aug	(30 18 31	30 19 53		SEPT	25 22 25	25 8 50
	SEPT	29 7 15	29 11 37		0	ſ10 16 47	10 20 35
	Oct	28 19 59	29 2 31		Ост	)25 11 9	25 0 41
	Nov	27 8 43	27 16 <b>1</b> 6		Nov	23 23 53	23 19 2
	0	$\int 12 \ 3 \ 5$	11 17 47		DEC	23 12 37	23 14 36
	DEC	126 21 27	27 4 44	1726.	JAN	22 1 22	22 9 42
1723.	T	0. 10 10	<b>0.</b> 4	в.	FEB	20 14 6	21 2 46
F.	JAN	25 10 12	25 15 57	10 0 15	MAR	22 2 50	22 16 58
10 6 49	FEB.	23 22 56	24 1 57		0	6 5 21 12	5 15 23
, _0 0 =0	MAR.	25 11 40	25 11 5		APRIL	$\begin{cases} 20 \ 15 \ 34 \end{cases}$	21 3 56
	APRIL MAY	24 0 24	23 19 57		MAY .	20 4 18	20 12 32
	JUNE.	23 13 8 22 1 52	23 5 20		June .	18 17 2	18 19 37
	JULY.	1	21 16 10		July.	18 5 46	18 2 18
	Aug	21 14 36 20 3 20	21 5 3		Aug	16 18 30	16 9 41
	SEPT.	18 16 4	19 20 10		SEPT	∫15 7 14	14 18 46
	Ост	18 4 48	18 12 59 18 6 36		0	(30 1 36	30 7 7
	Nov.	16 17 32	16 23 54		Oct	14 19 58	14 6 22
	DEC.	16 6 16	16 15 52		Nov	13 8 42	12 20 55
		-0 0 10	70 10 02		Dec	12 21 26	12 14 7
		-		1		l	

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. () Full Ecl.)
A.D. 1727.		d. h. m.	d. h. m.	A.D. 1730.		d. h. m.	d. h. m.
March.	JAN	11 10 11	11 9 3	D.	JAN	f 8 1 20	7 20 55
d. h. m.	FEB	9 22 55	10 4 12	3/57	0	22 19 42	23 6 18
10 6 4	MAR	<b>1</b> 1 11 39	11 21 59	March.	FEB	6 14 4	6 8 38
	APRIL	10 0 23	10 13 16	9 28 30	MAR.	8 2 48	7 21 6
ł	MAY .	9 13 7	10 1 38		APRIL	6 15 32	6 10 28
ļ	JUNE .	8 1 51	8 11 23		MAY .	6 4 16	6 0 50
	JULY.	7 14 35	7 19 21		JUNE .	4 17 0	
	Aug.	6 3 19	6 2 36		JULY .	(4 5 44	4 15 59 4 7 22
	SEPT.	4 16 8	4 10 15		0	13	
	Oct.	4 4 47	8 19 11				18 17 53
	Nov.	2 17 31	2 6 2		Aug	2 18 28	2 22 22
	1101.	1 2 6 15	1 19 12		SEPT	$\begin{cases} 1 & 7 & 12 \\ 20 & 10 & 50 \end{cases}$	1 12 29
	DEC	31 18 59	31 10 40	]	_	180 19 56	$\int 1 135$
		(91 10 99	51 10 40		Ост	80 8 40	(30 13 47
					Nov	28 21 24	29 1 28
1728.	JAN	80 7 48	80 8 58	1	DEC	28 10 8	28 12 28
G.F.	0	$\int 14 \ 2 \ 5$	14 9 44	1731.	JAN	26 22 53	26 23 7
	FEB	128 20 27	28 21 53	c.	FEB	25 11 37	25 9 27
9 11 53	MAR	29 9 11	29 15 28	10 5 19	MAR.	27 0 21	26 19 45
	APRIL	27 21 55	28 7 31	1 20 0 20	APRIL	25 18 5	25 6 86
	MAY .	27 10 39	27 21 17		MAY .	25 1 49	24. 18 87
	June.	25 28 28	26 8 43			(8 20 11	
	JULY .	25 12 7	25 18 18		O Terrore	3	
	0	(9629	8 19 11		JUNE.		28 8 12
	Aug	24 0 51	24 2 54		JULY.	23 8 17	22 23 16
	SEPT	22 13 35	22 11 28		Aug	21 16 1	21 15 17
	Ост	22 2 19	21 20 48		SEPT	20 4 45	20 7 29
	Nov.	20 15 8	20 7 21		Oct	19 17 29	19 28 10
	Dr.c.	20 8 47	19 19 22		Nov	18 6 18	18 18 47
	D		20 20		_ 0	{ 8 O 85	2 18 45
1700	_	10 10 00		1	DEC	17 18 57	18 8 4
1729. E.	JAN.,	18 16 82	18 8 54	1732.	JAN	16 7 42	16 14 55
~-•	~ O	$\begin{cases} 2 & 10 & 54 \\ 17 & 5 & 70 \end{cases}$	2 28 19	В.А.	FEB	14 20 26	15 1 24
0 15 40	FEB	17 5 16	16 23 48	9 11 8	MAR	15 9 10	15 10 45
9 17 42	MAR	18 18 0	18 15 44		APRIL	18 21 54	18 19 24
	APRIL	17 6 44	17 8 6		MAY .	(18 10 88	13 4 12
	MAY .	16 19 28	17 0 8		0	28 5 0	28 16 20
	June .	15 8 12	15 14 52		JUNE .	11 28 22	11 14 1
	JULY .	<b>∫14</b> 20 56	15 4 22		JULY.	11 12 6	11 1 48
	0	29 15 18	29 3 14		Aug.	10 0 50	9 15 45
	Avg	13 9 40	13 16 6		SEPT.	8 18 84	8 7 57
	SEPT	11 22 24	12 2 48		Oct.	8 2 18	8 1 29
	Ocr	11 11 8	11 12 51	1	Nov.	6 15 2	6 19 19
	Nov	9 23 52	9 28 5	1	0	$\begin{cases} 21 & 9 & 24 \\ 21 & 9 & 24 \end{cases}$	20 28 39
	DEC	9 12 86	9 9 44		DEC	6 8 46	6 12 17
	1			ĺ		0 9 #0	0 16 11
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1733.		d. h. m.	d. h. m.	A.D. 1736.		d. h. m.	d. h. m.
G.	JAN	4 16 30	5 3 28	D.C.		(2 7 40	2 3 28
d. $h$ . $m$ .	FEB	3 5 14	3 16 24		JAN	$\begin{cases} 2 & 10 \\ 31 & 20 & 24 \end{cases}$	31 22 34
9 16 57	MAR	4 17 58	5 3 6		FEB		01 22 0 <del>1</del>
	APRIL	3 6 42	3 11 57	March. $d. h. m.$		1 9 8	1 17 3
	MAY.	§ 2 19 26	2 19 37	9 10 23	MAR.O	16 3 30	16 2 28
	0	17 13 48	17 21 25			30 21 52	31 9 36
	JUNE.	§ 1 8 10	1 2 59		APRIL	29 10 36	29 23 23
	SOME.	₹30 20 54	30 <b>1</b> 1 7		MAY.	28 23 20	29 10 21
	JULY.	30 9 38	29 21 6		JUNE.	27 12 4	27 19 9
	Aug	28 22 22	28 9 45		July.	27 0 48	27 2 45
	SEPT	27 11 6	27 1 17		Aug	25 13 32	25 10 14
	Ост	26 23 50	26 <b>1</b> 9 12		0	(9 7 54	9 5 32
	0	$\int 10 \ 18 \ 12$	10 14 38		SEPT	\\\24 \ 2 16	23 18 36
	Nov	125 12 34	25 <b>14</b> 18		Ocr	23 15 0	23 4 33
	Dec	25 <b>1</b> 18	25 9 2		Nov	22 3 44	21 16 36
					DEC	21 16 28	21 6 53
1734.	JAN	23 14 3	24 2 1	1737.	<b></b>	00 = 40	40.00
F.	FEB	22 2 47	22 <b>1</b> 6 16	В.	JAN	20 5 13	19 23 9
9 22 46	MAR	23 15 31	24 3 40		Fев	18 17 57	18 16 41
	APRIL	22 4 15	22 12 36	9 16 11	O Mar	$\begin{cases} 5 & 12 & 19 \\ 20 & 6 & 41 \end{cases}$	5 18 50
	MAY .	21 16 59	2 <b>1</b> 19 55	0 10 11	APRIL	18 19 25	20 10 24 19 <b>3 1</b> 1
	JUNE.	20 5 43	20 2 37		MAY .	18 19 23	
	July.	19 18 27	19 9 47		JUNE .	16 20 53	18 18 5 17 6 43
	Aug	18 7 11	17 18 34		July .	16 20 33	16 17 17
	SEPT	16 19 55	16 5 53		Aug	(14 22 21	15 2 26
	Oct	16 8 39	15 20 16		0	29 16 43	29 6 2
İ	Nov.	14 21 23	1 <b>4</b> 13 34		SEPT	13 11 5	18 11 10
	DEC	14 10 7	14 8 45		Ост	12 28 49	12 20 15
4707	i				Nov	11 12 33	11 6 17
1735. E.	JAN	12 22 51	13 4 17		DEC	11 1 17	10 17 36
	FEB	11 11 36	1 <b>1</b> 22 29	1738.	Jan	9 14 1	9 6 16
10 4 35	MAR	$\begin{cases} 13 & 0 & 20 \\ 27 & 10 & 12 \end{cases}$	13 14 5	A.	FEB.	8 2 45	7 20 16
Ì	. 0	127 18 42	27 13 8	9 22 0	MAR.	9 15 30	9 11 28
	APRIL	11 13 4	12 2 33	•	APRIL	8 4 14	8 8 25
	MAY.	11 1 48	11 12 13		MAY.	7 16 58	7 19 32
	June.	9 14 32	9 19 55		JUNE .	6 5 42	6 11 1
	July .	9 3 16 7 16 0	9 2 40		JULY .	5 18 26	6 1 16
	SEPT.	. 10	7 9 39		Aug	4 7 10	4 13 58
	DEPT.	$\begin{cases} 6 & 4 & 44 \\ 20 & 23 & 6 \end{cases}$	5 17 53		SEPT.,	2 19 54	3 1 19
	Oct	5 17 28	21 3 43			r 2 8 38	2 11 58
	Nov.	4 6 12	5 4 16 3 17 23		Oct.	31 21 22	31 22 16
	DEC.	3 18 56	3 9 19		Nov	30 10 6	30 8 49
		2 20 50	ם דם		DEC	29 22 50	29 19 42
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ec	True New Moon.	37	Month,	Mean New Moon. (O Full Ecl.	Trne Ne Monn.	
A.D. 1739.		d. h. m	n. d. h. m.	A.D.		J 7	7 7	
G.		(13 17 1	2 14 1 28	1742.		d. h. m.	d. h.	//L.
March.	T	28 11 3		March.	JAN.	25 2 44	25 14 2	9
d. h. m	'• i	27 0 18	_	d. h. n	2. FEB	23 15 28	24 2 1	8
20 0 10	MAR.	1		9 21 1	6   Mar	25 4 12	25 11 4	7
	APRIL	27 1 46	2 22		APRIL	23 16 56	23 19 4	6
	MAY.	26 14 30		1	0	8 11 18	8 17	5
	JUNE .				MAY .	28 5 40	28 8	1
					June .	21 18 24	21 10 8	1
	True ve	9 21 30	1	il	JULY.	21 7 8	20 19 2	5
	JULY.	21 15 58			Aug	19 19 52	19 64	0
	Aug	28 4 42			SEPT	18 8 36	17 20 5	0
	SEPT.	21 17 26			Ocr	17. 21 20	17 18 4	7
	Oct.	21 6 10			0	( 1 15 42	1 18 5	4
,	Nov.	19 18 54			Nov	16 10 4	16 8 8	3
	DEC	19 7 38	19 11 27		DEC	15 22 48	16 8 5	1
	_ 0	∫ <b>8 2</b> 0	8 0 58	1743.	JAN	14 11 83	14 21 56	3
1740.	JAN	17 20 22	17 22 16	В.	FEB	18 0 17	18 18 86	3
F.E.	FEB	16 9 6	16 8 85	10 3 4	MAR.	14 13 1	15 2 19	)
9 9 38	MAR.	16 21 51	16 18 87		APRIL	13 1 45	18 12 18	3
	APRIL	15 10 35	15 4 51		. 0	27 20 7	27 17 88	3
	MAY.	14 23 19	14 15 57		MAY.	12 14 29	12 20 12	3
	1 1.	ſ13 12 3	13 4 34		JUNE.	11 8 18	11 8 0	)
	• .	28 6 25	28 11 19		July.	10 15 57	10 9 47	
	JULY.	18 0 47	12 18 50		Aug	9 4 41	8 17 40	
	Aug	11 13 81	11 10 88		SEPT	7 17 25	7 8 41	.
	SEPT	10 2 15	10 2 58		Oct	576.9	6 16 85	
	Ocr. ,	9 14 59	9 19 16		0	22 0 81	22 4 57	1
	Nov	8 8 48	8 10 45		Nov	5 18 58	5 8 88	
	DEC 5	7 16 27	8 0 55		DEC.	5 7 87	5 8 1	
	0	22 10 49	22 2 5	1744.	JAN	8 20 21	8 22 84	
1741.	JAN.	6 5 11	0 10 01	A.G.	FEB.	295	2 17 85	
D.	FEB.	4 17 55	6 18 85	9 8 58	MAR.	2 21 49	8 10 80	
9 15 27	MAR.		5 0 40			, 1 10 88	2 0 28	
	APRIL		6 10 28		APRILO	16 4 55	15 22 47	
	MAY.		4 19 8		,	80 28 17		
1	JUNE .		4 8 29		MAY .	80 12 1	1 11 25 80 19 56	1
		2, 20 52	2 12 29		June .		29 8 1	1
	JULY .	2 9 86	1 23 2		JULY.	28 18 29	28 9 51	1
- 1		B1 22 20	81 11 51		Aug.		26 17 26	1
i	~	30 11 4	80 8 4		SEPT	السدانية استعا	25 2 46	
1			28 20 18		0 1		10 14 55	
1 .			28 14 18		Ocr		24 14 84	
		1	27 8 8		Nov.		8 5 8	į.
.	~ Z	6 14 0	27 0 23		DEC		2 22 15	
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Mean Vernal Equinox.         Month. (○ Full Ecl.)         Mean New Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Mean New Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Mean New Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Month. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         True New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         A. h. n.         d. h. n.         A. D.         The New Moon. (○ Full Ecl.)         A. h. n.         A. D.         The New Moon. (○ Full Ecl.)         Moon. (○ Full Ecl.)         A. h. n.         A. D.         The New Moon. (○ Full Ecl.)         A. h.
1745.
1745.
March. d. h. m. 9 14 42  MAR 21 19 22 22 5 18  April 20 8 6 20 20 25  MAY . 19 20 50 20 8 45  June . 18 9 34 18 18 34  July . 17 22 18 18 2 48  Aug 16 11 2 16 10 19  Sept 14 23 46 14 18 18  March. d. h. m. 9 8 9  March. d. h. m. 9 8 9  March. d. h. m. 9 8 9  March. d. h. m. 9 8 9  March. d. h. m. 9 8 9  March. d. h. m. 9 8 9  June . 16 23 16 16 17 43  June . 15 0 44 14 22 28  July . 17 22 18 18 2 48  Aug 16 11 2 16 10 19  Sept 14 23 46 14 18 18  O 12 17 21 48 17 17 4  March. d. h. m. 9 8 9  June . 16 12 0 16 7 34  June . 15 0 44 14 22 28  July . 17 27 18 18 28 14 18 58  O 29 1 25
d. h. m.     9 14 42     Mar.     21 19 22     22 5 18     March.     Feb     (17 21 48)     17 17 4       APRIL     20 8 6 20 20 25     9 8 9     Mar.     18 10 32     18 4 57       MAY.     19 20 50 20 8 45     March.     APRIL     16 23 16     16 17 43       JUNE.     18 9 34 18 18 34     March.     Mar.     16 12 0     16 7 34       JULY.     17 22 18 18 2 48     JULY.     15 0 44     14 22 28       AUG.     16 11 2 16 10 19     JULY.     (14 18 28)     14 18 58       SEPT.     14 23 46 14 18 18     0     29 7 50 29 1 25
MAY. 19 20 50 20 8 45  June. 18 9 34 18 18 34  July. 17 22 18 18 2 48  Aug. 16 11 2 16 10 19  Sept. 14 23 46 14 18 18  O 20 20 25  MAR. 18 10 32 18 4 57  MAY. 16 12 0 16 7 34  June. 15 0 44 14 22 28  Aug. 16 11 2 16 10 19  Sept. 14 23 46 14 18 18  O 29 7 50 29 1 25
MAY . 19 20 50 20 8 45  June . 18 9 34 18 18 34  July . 17 22 18 18 2 48  Aug 16 11 2 16 10 19  Sept 14 23 46 14 18 18  MAY . 16 23 16 16 17 48  MAY . 16 12 0 16 7 34  June . 15 0 44 14 22 28  July . (14 18 28 14 18 18)  O (29 7 50 29 1 25
June. 18 9 34 18 18 34  July. 17 22 18 18 2 48  Aug. 16 11 2 16 10 19  Sept. 14 23 46 14 18 18  May. 16 12 0 16 7 34  June. 15 0 44 14 22 28  June. 15 0 44 14 22 28  July. (14 18 28 14 18 58)  O (29 7 50 29 1 25)
July     17 22 18 18 2 48       Aug.     16 11 2 16 10 19       Sept.     14 23 46 14 18 18       July     15 0 44 14 22 28       July     15 0 44 14 22 28       July     14 18 28 14 18 58       O 29 7 50 29 1 25       18 28 14 18 18
Aug. 16 11 2 16 10 19 July . {14 18 28 14 18 58 Sept. 14 28 46 14 18 18 O 29 7 50 29 1 25
Sept. 14 28 46 14 18 18 0 29 7 50 29 1 25
DEFI. 12 22 24 2 20 14 15 2 20 19 5 19
Nov. 13 1 14 12 14 37 SEPT. 11 14 56 11 19 51
Dec. 12 13 58 12 3 45 Oct. 11 8 40 11 9 85
Nov. 9 16 24 9 22 21
DEC. 9 5 8 9 10 15
1746. JAN 11 2 45 10 10 50
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TER.
A 0 16 55 0 99 97
35 0 5 90 0 14 17
T. 710 00 0 4 5
The state of the s
10 71 0 140
300 14 10 00 0 10
Avg
0 2 2 10 2 10 47
Nov. 2 10 3 2 5 28 SEPT. 30 12 29 30 14 50 Oct. 30 1 18 30 7 8
(1 22 47   1 16 12   27   20 19 87   20 20 16
DEG. 131 11 31 31 4 8
DEC.   18 8 19 12 22 10
1747 Tax 20 0 15 20 17 18
D. (18 19 87 14 7 40 17 50. JAN 26 15 25 26 28 48
Frp 198 19 59 98 7 89 FEB 20 4 9 20 9 00
10 2 20 Mar. 30 1 43 29 22 59 Mar. 26 16 55 26 18 56
APRIL 28 14 27 28 14 51 APRIL 25 5 57 20 5
May . 28 3 11 28 6 38 May . 24 18 21 24 11 28
June . 26 15 55 26 21 36 5 5 26 21 36 5 5 5 5 5 5 5 5 26 21 36 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
July . 26 4 39 26 11 14 June . 23 7 5 22 21 6
O (923 1 910 33 JULY. 22 19 49 22 8 3
Aug 24 17 23 24 23 47 Aug 21 8 83 20 22 8 Sept 19 21 17 19 15
SEPT. 23 6 7 23 10 38 Oct. 19 21 17 19 18 5
Oct. , 22 18 51 22 21 18 Nov 17 29 45 19 8 1
Nov. , 21 7 35 21 7 54
DEC.   20 20 19   20 18 41   O DEC.   \[ \begin{pmatrix} 2 17 & 7 & 2 & 8 \ 2 & 17 & 11 & 29 \end{pmatrix} 17 20 8
230 . (1. 11 20 1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. (O Full Ecl.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Fuli Ecl.	True New Moon.
A.D. 1751.		d. h. m.	d. h. m.	A.D. 1754.	,	d. h. m.	
F.	JAN.	16 0 14	16 11 59	В.	JAN.		1
March. d. h. m	FEB	14 12 58	15 0 53	March.	FEB.	12 15 24 11 4 8	
10 1 35		16 1 42	16 11 21	d. h. m. 9 19 2	MAR.		
	APRIL	14 14 26	14 19 53	0 10 2	0	$ \begin{cases} 12 & 16 & 52 \\ 27 & 11 & 14 \end{cases} $	
	MAY .	(14 8 10	14 3 12		APRIL	(27 11 14 11 5 86	1
	0	28 21 32	29 4 2		MAY.	10 18 20	11 16 45
	June .	12 15 54	12 10 21		JUNE .	9 7 4	1
	July.	12 4 38	11 18 21		July .	8 19 48	9 17 28
	Aug	10 17 22	10 4 19		Aug.	7 8 32	
	SEPT	9 6 6	8 17 2		SEPT	(521 16	7 10 20
	Our	8 18 50	8 8 44		0	20 15 38	5 18 12
	Nov	7 7 84	7 2 55		Ocr	5 10 0	20 12 39
	0	22 1 56	21 22 29		Nov.	3 22 44	5 2 54
	DEC	6 20 18	6 22 17		DEC.	8 11 28	8 13 7
					- Luc	0 11 20	8 1 15
1752.	JAN.	5 9 3	5 17 11	4755		(2 0 12	1 15 22
E.D.	FEB.	8 21 47	4 10 11	1755. A.	JAN	31 12 56	91 7 18
9 7 24	MAR.	4 10 31	5 0 20	Α.	FEB		
	APRIL	2 23 15	3 11 32			2 1 40	2 0 14
	May .	2 11 59	2 20 17	10 0 50	MAR. O	16 20 2	17 3 7
		(1 0 48	1 8 25	ĺ		31 14 24	81 17 28
	JUNE.	30 13 27	30 10 2		APRIL	30 8 8	30 9 58
	JULY .	80 2 11	29 17 16		MAY .	29 15 52	30 0 47
	Aug.	28 14 55	28 2 10		June .	28 4 36	28 18 84
	SEPT.	27 8 89	26 13 38		JULY .	27 17 20	28 0 29
	Oct	26 16 28	26 4 10		Aug. ,	26 6 4	26 10 6
	Nov.	25 5 7	24 21 88		0	(10 0 26	9 18 9
	DEC.	24 17 51	24 16 44	1	SEPT	24 18 48	24 19 18
					Ocr	24 7 82	24 4 46
1753.	JAN.	28 6 85	28 12 11		Nov	22 20 16	22 15 5
c.	FEB.	21 19 19	22 6 14		DEC	22 9 Q	22 2 26
9 13 13	Mar.		28 21 89		_		
	0	7 2 25	6 20 46		JAN.	20 21 45	20 14 52
			22 10 0		FEB.	19 10 29	19 4 28
1	MAY .		21 19 85		MAR.	19 28 18	19 18 56
	JUNE .		20 8 17		APRIL	18 11 57	18 10 20
1	JULY .		19 10 10	L L	MAY.	18 0 41	18 2 6
1	Aug.		17 17 22	1	June .	16 18 25	16 17 80
	SEPT.	40 40	16 1 51	<b>I</b>	JULY.	16 2 9	16 7 56
	0	1 6 49	1 11 15	i	Aug.	14 14 58	14 21 5
			5 12 27	1	SEPT.	18 8 87	18 9 1
	Nov.		4 1 40	1	Oct.		12 20 9
	DEC.		18 17 84	- 1	Nov.		11 6 58
				-	DEC.	10 17 49	10 17 45
				<u> </u>	<u> </u>		

Mean		Mean New	True New	Mean		Mean New	True New
Vernal Equinox.	Month.	(O Full Ecl.)	Moon.	Vernal Equinox.	Month.	Moon. (O Full Ecl.)	Moon.
A.D. 1757.		d. h. m.	d. h. m.	A.D. 1760.		d. h. m.	d. h. m.
E.	JAN	(9 6 34	9 4 39	B.A.	JAN	6 21 44	7 8 49
	0	24 0 56	24 9 27	March. $d. h. m.$	FEB	5 10 28	5 22 59
d $h$ $m$ .	FEB	7 19 18	7 15 39	9 5 55	MAR	5 23 12	6 10 32
9 12 28	MAR.	982	9 2 57		APRIL	4 11 56	4 19 48
	APRIL	7 20 46	7 14 57		MAY.	(4 0 40	4 3 28
ļ	MAY.	7 9 30	7 3 57		0	18 19 2	18 23 41
	June .	5 22 14	5 18 11		JUNE.	2 13 24	2 10 28
	JULY.	( 5 10 58	5 9 21		001111	(2 2 8	1 17 49
	0	20 5 20	20 1 40		July.	81 14 52	31 2 39
1	A.ug	3 23 42	4 0 56		Aug	30 3 36	29 13 58
,	SEPT	2 12 26	2 16 13		SEPT.	28 16 20	28 4 17
		(2 1 10	2 6 43		Oct	28 5 4	27 21 26
	Oct	31 13 54	31 20 15		l.	(11 23 26	11 22 40
ļ	Nov	30 2 38	30 8 47		Nov.	26 17 48	26 16 30
	DEC	29 15 22	29 20 24			26 6 32	26 11 54
	LOEU	20 10 22	20 20 24		DEC	20 0 02	20 11 01
i	0	(13 9 44	13 8 49	1761.	JAN	24 19 16	25 6 2
1758.	JAN	28 4 6	28 7 8	G.	FEB	23 8 0	2 <b>3 21 3</b> 8
D.	FEB.	26 16 50	26 17 5	9 11 43	MAR	24 20 44	25 10 13
9 18 17	MAR.	28 5 34	28 2 37		APRIL	23 9 28	23 <b>1</b> 9 59
	APRIL	26 18 18	26 12 18		0	(8 3 50	8 0 23
	MAY*.	26 7 2	25 22 57		MAY .	22 22 12	28 3 43
	JUNE .	24 19 46	24 11 12		June .	21 10 56	21 10 26
	0	(9148	9 18 42		JULY .	20 23 40	20 17 15
	JULY.	24 8 30	24 .1 25		Aug	19 12 24	19 1 <b>1</b> 4
	Aug	22 21 14	22 17 18		SEPT	18 1 8	17 11 25
	SEPT	21 9 58	21 10 8		Oct	17 13 52	17 0 29
	Oct.	20 22 42	21 3 0		0	(1814	1 13 24
	Nov.		19 19 2		Nov	[16 2 36	15 16 32
	DEC.	19 0 10	19 9 35		DEC	15 15 20	15 10 59
			-5 00	1762.	JAN	14 4 5	14 6 29
	0	( 2 18 32	2 10 22	F.	FEB.		13 1 21
1759.	JAN	. 17 12 55	17 22 22	9 17 32	MAR.		14 18 6
c.	FEB	. 16 1 39	16 9 <b>1</b> 8	1.02	APRIL	(12 18 17	13 7 55
10 0 6	MAR.	. 17 14 28	17 18 41		D.FRIL	27 12 39	
	APRIL	16 3 7	16 2 57		MAY .	17	12 18 46
	MAY	. 15 15 51	15 10 56		JUNE		11 3 17
	June .	. 14 4 35	13 19 37		JULY	1	1
	JULY	. 13 17 19	13 5 57		Aug.		
	Aug.	. 12 6 3	11 18 43	.	SEPT.	`	1
	SEPT.	. 10 18 47	10 10 6	:	Oct.	6 22 41	
	Ост.	. 10 7 31	10 3 35	.	0	21 17	
	Nov.	. 8 20 15	8 22 5	.	Nov.	5 11 25	
	DEC.	. 8 . 8 59	8 16.14	.	-	5 0 8	
	1	1	1	11		.   " " "	1 - 10 00

		<del></del>					
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1763.		d. h. m.	d. h. m.	A.D. 1766.		d. h. m.	d. h. m.
E. Marsh	JAN	3 12 54	3 6 25	A.	JAN.	29 16 48	29 14 80
March. $d. h. m.$	FEB	2 1 38	2 0 46			(13 11 10	
9 23 21	MAR.	8 14 22	3 19 14	March.	FEB.	28 5 32	13 22 12
	APRIL	2 3 6	2 12 27	d. h. m. 9 16 48	MAR.	29 18 16	
		( 1 15 50	2 3 26	0 10 40	APRIL		29 12 41
	MAY.	31 4 84	31 15 47		MAY.	_	28 0 51
	JUNE .	29 17 18	30 1 45	ł	JUNE.	27 19 44	27 14 15
	JULY.	29 6 2	29 10 12		1	26 8 28	26 4 55
1	Aug.	27 18 46	27 18 8		JULY.	25 21 12	25 20 25
	SEPT.	26 7 80	26 2 31		0	9 15 84	9 9 8
	Oct.	25 20 14	25 12 4		Avg	24 9 56	24 12 6
	Nov.	24 8 58	28 23 17		SEPT	22 22 40	28 8 20
	-	28 21 42	28 12 22		Oct	22 11 24	22 17 40
	DEC	20 21 42	25 12 22		Nov.	21 0 8	21 6 57
1764.	JAN.	22 10 26	22 8 14	}	Drc	20 12 52	20 19 10
D.C.	FEB.	20 23 10	20 19 31	4-0-	~		
	0	6 17 82	7 2 38	1767. G.	JAN	19 1 36	19 6 19
9 5 10	MAR.	21 11 54	21 12 30		FEB	17 14 20	17 16 80
0 0 20	APRIL	20 0 88	20 5 17	9 22 86	MAR	19 3 4	19 1 58
i	MAY.	19 13 22	19 20 57		APRIL	17 15 48	17 11 18
	JUNE .	18 2 6			MAY.	17 4 82	16 21 2
	1	17 14 50	18 10 50		June.	15 17 16	15 8 14
	JULY.	(16 8 84	17 22 45		JULY.	15 6 0	14 21 24
	Aug.	13	16 9 7		Aug	13 18 44	18 12 82
	0		80 9 19		SEPT	12 7 28	12 5 10
	SEPT	14 16 18	14 18 41		Ocr	11 20 12	11 22 24
	OCT	14 5 2	14 4 11		Nov	10 8 56	10 15 18
	Nov.	12 17 46	12 14 14		DEC	( 9 21 40	10 6 46
	DEC	12 6 30	12 1 5		0	24 16 2	24 6 86
1765.	JAN.	10 19 15	10 12 54				1
В.	FEB.	(9 7 59	9 1 89	1768.	JAN.	8 10 25	8 20 85
	0	24 2 21		F.E.	Feb	6 28 9	7 8 23
9 10 59	MAR.	10 20 48	24 15 52	9 4 25	MAR	7 11 58	7 18 21
0 10 00	1	9 - 9 27	10 15 24 9 6 8		APRIL.	6 0 87	6 2 54
	APRIL MAY.	8 22 11	~ ~ ~ <sub> </sub>		MAY.	5 18 21	5 10 44
		7 10 55	8 21 38		June.	§ 4 2 5	8 18 45
	JUNE.		7 18 6		0	18 20 27	19 6 11
	JULY.	6 28 39	7 4 10		July.	8 14 49	8 4 2
	Aug	5 12 28	5 18 9		ATIC	12888	1 15 29
	0	20 6 45	19 18 2		Aug	81 16 17	81 5 87
	SEPT	4 1 7	4 6 56		SEPT	80 5 1	29 22 18
1	Oct.	8 18 51	8 18 43	ĺ	Oor	29 17 45	29 16 88
	Nov.	2 2 85	2 5 58		Nov.	28 6 29	28 11 19
	DEC.	1 15 19	1 16 49		0	18 0 51	12 17 14
		(81 4 8	81 8 40	ł	DEC	27 19 18	28 4 56
			11	1	}	1	17

Mean Vernal Equinox,	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1769.	Jan	d. h. m. 26 7 58	d. h. m. 26 20 25	A.D. 1772. A.G.		d. h. m.	d. h. m.
March.	FEB.	24 20 42		March.	JAN	23 23 8	23 19 28
9 10 14	MAR.	26 9 26	25 9 13	d. h. m.	Fев	22 11 52	22 13 50
0 10 14	APRIL		26 19 27	9 3 41	MAR	23 0 35	23 7 39
			25 4 10		. 0	$\begin{cases} 6 \ 18 \ 57 \end{cases}$	6 18 32
	MAY .	24 10 54	24 10 45		APRIL	121 13 19	21 23 45
}	_ 0	8 5 16	8 10 33	1	MAY.	21 2 3	21 13 22
	June.	122 23 38	22 17 43		June.	19 14 47	20 0 31
	July.	22 12 22	21 23 39		JULY.	19 3 31	19 9 45
	Aug	21 <b>1</b> 6	20 11 38	1	Aug	17 16 15	17 18 0
]	SEPT	19 13 50	19 0 29		SEPT	f16 4 59	16 2 15
	Oct	19 2 34	18 16 23		0	180 28 21	30 19 54
	Nov	17 15 18	17 10 44		Oct	15 17 48	15 11 19
[ ]	0	∫ 2 9 40	2 8 25		Nov	14 6 27	13 21 48
	DEC	17 4 2	17 6 16		DEC	13 19 11	13 9 57
1770.	JAN	15 16 46	16 1 15	1773.	JAN	12 7 56	11 23 49
c.	FEB.	14 5 30	14 18 <b>1</b> 2	F.	FEB	10 20 40	10 15 13
9 16 3	MAR.	15 18 14	16 8 13	9 9 29	MAR	(12 9 24	12 7 40
0 10 0	APRIL	14 6 58		Ì	0	27 3 46	27 11 14
	MAY.	13 19 42	14 19 15	İ	APRIL	10 22 8	11 0 27
		l i	14 3 48		MAY.	10 10 52	10 16 38
	JUNE.		12 10 52		June .	8 23 36	9 7 26
	1	11 21 10	11 17 30		JULY.	8 12 20	8 20 27
	Aug	10 9 54	10 0 50		Aug.	7 1 4	7 7 44
1	SEPT	8 22 38	8 9 53		SEPT.	5 13 48	5 17 51
	Ocr	8 11 22	7 21 32		O	20 8 10	
	Nov.	7 0 6	6 12 12		Oct.		
	DEC	6 12 50	6 5 35		Nov.	5 2 32	5 3 33
					D	3 15 16	3 13 29
1771.	Jan	5 1 35	5 0 42		DEC	3 4 0	3 0 1
В.	FEB	3 14 19	3 19 59	ll	_	( 1 16 45	1 11 19
9 21 52	MAR	5 3 3	5 13 50	1774.	JAN	31 5 29	80 23 25
	APRIL	ß 3 15 47	4 5 6	E.	FEB		
	0	18 10 9	18 4 19			( 1 18 13	1 12 23
	MAY.	3 4 31	3 17 20	9 15 18	MAR	31 6 57	31 2 20
	JUNE .	1 17 15	2 2 54		APRIL	29 19 41	29 17 11
	1	ſ 1 5 59	1 10 40		MAY.	29 8 25	29 17 11
	JULY.	18 43	30 17 45		June.	27 21 9	
	A.ug	29 7 27	29 1 12	]	JULY.	1 -	27 28 59
1	SEPT	27 20 11	27 9 57		Aug.		27 14 41
	0	(12 14 33	12 18 56		1		26 4 18
1	Ocr	27 8 56	26 20 48		SEPT	24 11 21	24 16 51
	Nov.	25 21 40	25 10 7	11	Oct.	24 0 5	24 4 88
	DEC	25 10 24	25 1 51		Nov.	22 12 49	22 15 46
					DEC	22 1 33	22 2 45
·		<del></del>	·	11	1	1	l ,

Mean		Mean New	True New	Mean	<u> </u>	Wass 27	}
Vernal Equinox.	Month.	Moon.	Moon.	Vernal	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1775.		d. h. m.	d. h. m.	A.D. 1778.		d. h. m.	d. h. m.
D.	JAN	20 14 17	20 13 30	G.	JAN	17 5 26	17 17 9
March.	0	1 4 8 39	4 17 19	March. d. h. m.	FEB.	15 18 10	16 7 16
d. h. m.	FEB	19 3 1	19 0 8	9 14 34	MAR.	17 6 55	17 18 40
9 21 7	MAR.	20 15 45	20 10 54		APRIL	15 19 39	16 8 89
	APRIL	19 4 29	18 22 17		MAY.	15 8 23	15 11 5
	MAY.	18 17 13	18 10 47		JUNE .	18 21 7	18 17 58
	JUNE .	17 5 57	17 0 41		JULY.	13 9 51	13 1 9
	JULY.	(16 18 41	16 15 49		A.UG.	11 22 35	1 1
	0	31 13 3	31 9 14		SEPT.	10 11 19	11 10 1
	Aug	15 7 25	15 7 38				9 21 24
	SEPT.	13 20 9	13 23 26		Oct	10 0 8	9 11 52
	Oct.	13 8 53	13 14 83		Nov.	1	8 5 13
	Nov.	11 21 37	12 4 89		0	(23 7 9	23 7 30
	DEC	11 10 21	11 17 84		DEC	8 1 31	8 0 24
1776.	JAN	(9236	10 5 19	1779.	JAN	6 14 15	6 19 55
C.B.	0	24 17 28	24 16 41	F.	FEB	5 2 59	5 14 1
	FEB.	8 11 50	8 15 58	9 20 22	MAR.	6 15 44	7 5 88
9 2 56	MAR.	9 0 31	9 1 27		APRIL	5 4 28	5 17 57
0 2 00	APRIL	7 13 18	7 10 29		MAY .	( 4 17 12	5 8 84
	MAY.	7 2 2	6 19 41		0	19 11 84	19 7 7
	June.	5 14 46			June .	8 5 56	3 11 11
	JULY.	(5 8 30		,	JULY.	2 18 40	2 17 55
	O .	19 21 52				(1724	1 0 48
	- 1	•			Aug	(80 20 8	80 8 57
	Aug	3 16 14	8 8 5		SEPT.	29 8 52	28 19 20
	SEPT	2 4 58	2 0 11		Oct	28 21 36	28 8 82
	Ocr	$\begin{cases} 1.17.42 \\ 01.000 \end{cases}$	1 17 27		0	(12 15 58	12 21 58
	NT	(81 6 26	81 10 52		Nov.	27 10 20	27 0 89
	Nov	29 19 10 29 7 54	80 8 28		DEC	26 28 4	26 19 2
	DEC	29 7 54 (18 2 16	29 18 14 12 18 41	1780.	Jan	25 11 49	05 44 00
1777.	JAN.	27 20 88	28 7 2	E.D.	~	24 0 88	25 14 20   24 9 0
Α.	FEB.	26 9 22		9 2 11	Mar.	24 18 17	24 9 0   25 1 88
9 8 45	MAR.			0 2 11		28 2 1	
2 3 340	APRIL	27 22 6 26 10 50	28 2 48 26 10 48		APRIL	(72028	28 15 18 7 18 20
		25 28 84			MAY.	22 14 45	7 18 20
	MAY . June .		25 18 20		JUNE.	21 8 29	
		24 12 18	24 2 48		JULY.	20 16 18	100
	T	, , , ,	9 15 10		. 1		20 17 59
	JULY .	24 1 2 22 13 46	28 12 56		AUG Sept	19 4 57 17 17 41	19 1 14 17 9 24
	AUG		22 1 48		_	17 6 25	
			20 17 17		Oct		16 19 16   1 6 51
	Ocr.	20 15 14	20 11 5		Nov	$\begin{cases} 1 & 0.47 \\ 15.19 & 9 \end{cases}$	
	Nov.	19 8 58	19 5 57		DEC.	15 7 53	15 7 28 14 21 54
	DEC	18 16 42	19 0 25			10 1 00	THE ST 24
		1					Charles Sold of

A.D. 1781.  March.  A. h. m.  C. March.  A. h. m.  Bee. 12 9 21 12 8 29  MAR. 11 23 88 12 10 19  June 10 12 17 10 22 48  Juny 10 1 1 10 8 55  Act.  Act.  Bee. 18 5 25 2 20 59  Bee. 18 9 5 0 10  Arrill 18 16 18 10 51  Arrill 18 16 18 10 51  Arrill 18 28 29 44  Arrill 19 18 9 7 15  Arrill 18 28 29 44  Arrill 20 21 18 3 3 31  Juny 29 9 50  Sept. 20 22 25 24 26  Dec. 23 14 14 28 10 8  Arrill 20 26 1 21 18  Arrill 20 27 18 18  Arrill 20 20 5 54  Arrill 20 20 15 48  Arrill 20 20 15 48  Arrill 20 20 15 48  Arrill 20 20 15 48  Arrill 20 20 15 48  Arrill 20 20 15 48  Arrill 20 20 15 48  Arrill 20 20 15 48  Arrill 20 20 15 48  Arrill 20 20 15 18  Arrill 20 20 20 20 20 20 20 20 20 20 20 20 20	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
March. d. h. m. 9 8 0  Mar. 12 9 21 12 8 29  Mar. 13 22 5 14 2 38  APRIL 12 10 49 12 19 28  Mar. 11 28 38 12 10 19  JUNE. 10 12 17 10 22 48  JULY. 10 1 1 1 10 8 55  AUG. 8 18 45 8 17 42  SEPT. 7 2 29 7 2 8  OCT. 6 15 18 6 10 50  Nov. 5 3 57 4 20 48  DEC. 4 16 41 4 8 8  JULY. 9 18 49  Mar. 18 22 10 19  18 16 18 10 61  APRIL 19 19 88 11 12 7  9 18 49  Mar. 18 22 10 19  JUNE 28 22 34 29 5 14  AUG. 27 11 18 27 16 40  O  SEPT. 28 12 10 2 16  Nov. 28 12 3 2 4 26  DEC. 28 14 14 28 10 3  1783. A. FEB. 10 2 17 10 2 13 9  AUG. 27 10 5 7 28 55  Nov. 20 16 40  AUG. 27 10 5 7 28 55  AUG. 20 15 19  AUG. 20 16 61 16 61 16  APRIL 19 28 27 18 49  Mar. 20 20 54  AUG. 20 21 12 1  JULY. 20 10 0 81  9 23 9  APRIL 9 1 59 8 20 16  Mar. 10 18 16 11 0 9 83  APRIL 10 18 16 11 0 9 83  AUG. 1783. A. FEB. 1784.  A. SEPT. 20 15 48  AUG. 21 18 53 25 5 56  AUG. 18 18 16 10 50  OCT. 18 18 16 18 10 61  OCT. 18 17 51  APRIL 19 28 29 84  AUG. 27 11 18 27 16 40  O  SEPT. 28 12 10 10 8 11  JULY. 26 10 0 81  9 23 9  1785.  AUG. 16 16 11 6 11 23  AUG. 1785. B. FEB. 1785. JAN. 29 9 10 29 17 81  Mar. 29 10 48  AUG. 27 12 16 27 4 11  JULY. 25 18 44  25 18 49  AUG. 27 12 16 27 4 11  JULY. 25 18 44  26 4 6  AUG. 27 12 16 27 4 11  JULY. 25 18 44  26 4 6  AUG. 26 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			d. h. m.	d. h. m.			d. h. m.	d. h. m.
## A. B. Beb.   12   92   12   82   83   March.   d. h. m.   Feb.   13   22   5   14   2   28   March.   d. h. m.   d. h.		JAN	13 20 37	13 14 33	G.F.	JAN	11 11 47	11 12 38
9 8 0 Mar. 13 22 5 14 2 23   APFIL 12 10 49 12 19 28   Mar. 11 28 83 12 10 19   JUNE. 10 12 17 10 22 48   JULY. 10 1 1 1 0 8 85   AUG. 8 18 45 8 17 42 98   AUG. 6 15 13 6 10 50   Nov. 5 8 57 4 20 48   DEC. 4 16 41 4 8 8   OCT. 6 15 13 6 10 50   APFIL 1 19 88 1 19 37   9 18 49 Mar. 1 19 88 1 19 37   APFIL 1 19 88 1 19 37   APFIL 1 19 88 1 19 37   AUG. 22 11 2 1   BAY. 28 23 42 29 5 48   AUG. 27 11 18 27 16 40   O (11 5 40 10 16 38   SEPT. 27 22 5 7 16 40   O (11 5 40 10 16 38   SEPT. 28 24 26 26 26 26   DEC. 28 14 14 28 10 3   AUG. 27 10 5 7 28 55   Nov. 24 1 30 28 23 6   DEC. 28 14 14 28 10 3   AUG. 27 10 5 7 28 55   Nov. 20 16 40 20 28 24   APFIL 1 10 5 54 20 49   APFIL 1 10 5 54 20 49   APFIL 28 18 18 38 18 19 32   AUG. 1 6 10 5 64   AUG. 24 22 8 28 19 21 8 1 4   AUG. 25 18 44 25 4 6   AUG. 24 28 28 19 21 8   AUG. 26 10 25 15 4 6   AUG. 26 26 24 6   AUG. 27 11 18 27 16 40   O (11 5 40 10 16 38   SEPT. 26 10 25 15 4 6   AUG. 27 11 18 27 16 40   O (11 5 40 10 16 38   SEPT. 27 28 42 28 19 10   APFIL 1 7 65 2 17 16 50   APFIL 1 7 65 2 17 16 50   APFIL 28 29 4 29 5 48   AUG. 24 130 28 23 6   DEC. 28 14 14 28 10 3   AUG. 26 15 14 28   AUG. 26 15 14 28   AUG. 27 10 5 7 28 55   AUG. 16 11 1 6   APFIL 1 7 6 5 1 1 15 36   APFIL 1 7 6 5 1 1 15 36   APFIL 1 7 6 5 1 1 15 36   AUG. 1 6 11 28   AUG. 1 6 16 11 1 10 11 11		FEB	12 9 21	12 8 29	March	FEB	ſ10 0 B1	9 23 9
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	JUNE .	22 16 10	22 18 19		MAY .	21 18 86	21 23 13
	JULY .	22 4 54	22 1 1		JUNE .	20 7 20	20 14 2
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Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1793.		d. h. m.	d. h. m.	A.D. 1796.		d. h. m.	d. h. m.
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	MAY .	29 0 57	28 17 35		July .	23 17 35	23 8 33
	June .	27 13 41	27 7 14		Aug.	22 6 19	21 17 30
	JULY.	27 2 25	26 22 22		SEPT	20 19 3	20 5 2
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	Aug	25 15 9	25 14 29		Nov	18 20 31	18 13 7
	SEPT	24 3 53	24 6 47		0	3 14 58	3 16 25
	Ост	23 16 37	23 22 30		DEC	(18 9 15	18 8 23
	Nov	22 5 21	22 13 7		_	10.00	17 0 70
	DEC	21 18 5	22 2 22	1797.	JAN	16 22 0	17 3 53
1794.	JAN	20 6 50	20 14 9	D.	FEB	15 10 44	15 21 55
Α.	0	(4 1 12	4 0 32	9 5 1	MAR	16 23 28	17 13 16
	FEB	[18 19 34	19 0 31		APRIL	15 12 12	16 1 32 15 11 2
9 11 35	MAR	20 8 18	20 9 43		MAY.	(15 0 56	15 11 2 29 13 46
	APRIL	18 21 2	18 18 17		0	13 13 40	13 18 37
	MAY .	18 9 46	18 3 1		JUNE .	13 13 40	13 1 22
}	JUNE.	1	16 12 53		JULY .	11 15 8	11 8 26
1	JULY .	12			SEPT.	10 3 52	9 16 49
	0	(31 5 36			Oct.	9 16 36	9 8 25
	Aug.				Nov.	8 5 20	7 16 45
	SEPT.	1 .	1		0	22 23 42	23 6 36
	Oct.	. 13 1 26	(		DEC.	7 18 4	7 8 50
	Nov.	. 11 14 10 . 11 2 54	1				
1705				1798.	JAN	6 6 48	6 8 8
1795. G.	Jan.	9 15 38		С.	FEB	4 19 32	4 22 6
	FEB.	24 10 (		9 10 50	MAR.	6 8 16	6 16 27
9 17 24		. 8 4 22			APRIL	4 21 0	5 8 47
0 1. 2.	APRI				MAY .	4 9 44	1
	MAY	1			O T	(19 4 6	
	JUNE				June .	2 22 28	1
	JULY		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		JULY .	2 11 12 31 23 56	
	0	20 14 2			Aug	30 12 40	1) 1 1 00
	Aug.	1 -			SEPT.	29 1 24	
	SEPT				OCT.	28 14 8	1
	Ост.	( 2 10 1		13	001.	12 8 30	
	OCT.	(31 22 5	8 31 18 43		Nov.	27 2 52	
	Nov.	1	2 30 13 53		DEC.	26 15 36	
	DEC.	. 30 0 2	8 30 8 36	;			

Mean Vernal Equinox.	Month.	Mean New Moon.	Irne New Moon. Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 1799. B. March. d. h. m. 9 16 39	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	d. h. m.  25 4 21 2 23 17 5 2 25 5 49 2 28 18 38 2 28 7 17 2 21 20 1 21 8 45 19 21 29	d. h. m.  24 22 38 28 15 6 25 9 43 24 2 21 23 17 6 22 5 37 21 16 7 20 1 19 18 10 6 17 19 19 16 5 29 15 16 52	A.D. 1802. E. March. d. h. m. 9 10 6	JAN FEE O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT	d. h. m. 21 19 30 20 8 14 7 2 36 21 20 59 20 9 48 19 22 27 18 11 11 17 23 55 16 12 39 81 7 1 15 1 28 14 14 7	d. h. m. 21 21 30 20 7 42 7 13 30 21 17 38 20 3 48 19 14 54 18 3 38 17 17 55 16 9 48 31 0 38 15 2 13 14 18 37
1800. A.G. 8 22 28	JAN FEB MAR O APRIL MAY . JUNE . JULY AUG. SEPT. O OCT. NOV. DEC.	14 13 9 13 1 58 (13 14 37 28 8 59 12 3 21 11 16 5 10 4 49 9 17 33 8 6 17 (6 19 1 21 13 23 6 7 45 4 20 29	14 5 85 12 19 86 13 10 48 28 18 54 12 2 36 11 18 88 10 10 3 10 0 14 8 12 56 7 0 19 21 0 4 6 10 57 4 21 24 4 8 1	1803. D. 9 15 54	Nov DEC  JAN FEB	18 2 51 12 15 85 11 4 19 9 17 8 11 5 47 9 18 31 9 7 15 7 19 59 7 8 48 5 21 27 4 10 11 8 22 55 2 11 86 \$\frac{2}{2} \text{ 0 2}{2}	13 10 7 18 0 17 11 12 50 9 28 49 11 9 28 9 17 59 9 2 19 7 11 18 6 21 56 5 10 53 4 2 18 8 3 19 86 9 2 18 46
1801. F. 9 4 17	JAN. FEB. MAR. O APRIL MAY JUNE JULY AUG. O SEPT. OCT. NOV. DEC.	. 1 10 42 2 28 26 {17 17 48 1 12 10 { 1 0 54 80 18 38 29 2 22 28 15 6 27 3 50 {10 22 12 25 16 34 25 5 18 28 18 2	25 22 10 25 11 8 28 28 16		O JAN. Fre. 8 MAR. APRI MAY JUNE O JULY AUG SEPT OCT. NOV. DEC.	15 7 8 80 1 5 29 8 2 27 16 25 17 8 10 11 5 25 6 5 28 19 22 7 6 20 9 1	2 80 18 47 6 29 1 20 0 29 10 48 4 27 18 85 8 27 1 44 12 25 9 17 64 10 19 55 16 24 18 17 0 28 5 48 14 21 20 5 28 21 18 14 12 20 8 11

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1805.		d. h. m.	d. h. m.	A.D. 1808.		d. h. m.	d. h. m.
Α.	0	3 16 18	3 10 56	E.D.	JAN	16 1 51	15 18 26
March.	JAN	18 10 41	18 21 25	March. $d. h. m.$	FEB	14 14 35	14 11 11
d. h. m.	FEB	16 23 25	17 12 53	8 20 59	Mar	15 3 19	15 4 37
9 8 32	MAR	18 12 9	19 1 24		APRIL	(13 16 3	13 21 40
	APRIL	17 0 53	17 11 10		0	28 10 25	28 10 7
	MAY .	16 13 37	16 18 56		MAY.	13 4 47	13 13 22
	June.	$\int 15 \ 2 \ 21$	15 1 41		June .	11 17 31	12 3 3
	_ 0	(29 20 43	29 23 31		JULY.	11 6 15	11 14 36
	JULY.	14 15 5	14 8 31		Aug	9 18 59	10 0 33
	Aug	13 3 49	12 16 31		SEPT	8 7 43	8 9 41
	SEPT	11 16 33	11 2 43		Ост	7 20 27	7 18 49
	Oct	11 5 17	10 16 12		0	(22 14 49	22 10 51
	Nov.	9 18 1	9 8 2		Nov	6 9 11	6 4 37
	DEC	9 6 45	9 2 36		DEC	5 21 55	5 15 27
	0	(24 1 7	24 2 21				
1806.	JAN	7 19 30	7 22 11	1809.	JAN	4 10 39	4 3 27
G.	FEB.	6 8 13	6 17 4	С.	FEB	2 23 23	2 16 37
9 9 21	MAR.	7 20 57	8 9 48	9 2 47	Mar	4 12 7	4 6 55
	APRIL	6 9 41	6 23 32		APRIL	$\int 3 051$	2 22 11
	MAY .	5 22 25	6 10 16		0	17 19 13	18 3 5
	JUNE .	4 11 9	4 18 41		May .	2 13 35	2 14 1
Į	JULY .	3 23 53	4 1 44		JUNE .	$\int_{0.017}^{1} \frac{2}{19}$	1 5 43
İ	Aug	2 12 37	§ 2 8 36		-	(30 15 3	30 20 37
	Gram	1 1 21	131 16 19		JULY.	30 3 47	30 10 13
	SEPT	30 14 5	30 1 49		Aug Sept	28 16 <b>3</b> 1 27 5 15	28 22 24 27 9 43
1	Oct	30 2 49	29 13 50			(11 23 37	11 11 88
	Nov	28 15 33	28 4 36		Ост	26 17 59	26 20 26
	DEC	28 4 17	27 21 48		Nov.	25 6 43	25 7 7
1807.	JAN.	26 17 2	06 16 00		DEC.	24 19 27	24 17 56
F.	FEB.	25 5 46	26 16 29 25 11 13				
9 15 10	MAR.	26 18 30	27 4 34	1810.	JAN.	23 8 11	23 4 56
	APRIL	25 7 14	25 19 29	В.	FEB.	21 20 55	21 16 12
1	0	(10 1 36	9 19 7	9 8 83	MAR.	23 9 40	23 4 2
	MAY .	24 19 58	1		APRIL	21 22 24	21 16 46
	June .	23 8 42	23 17 21		MAY.	21 11 8	21 6 38
İ	JULY .	22 21 26	23 1 20		June .	19 23 52	19 21 81
	Aug	21 10 10	21 9 9		JULY.	19 12 36	19 12 59
	SEPT	19 22 54	19 17 15		Aug	18 1 20	18 4 20
	Ocr	19 11 38	19 2 39		SEPT	16 14 4	16 19 2
	_ 0	∫ 3 6 0			Ост	16 2 48	16 8 58
	Nov	18 0 22			Nov.	14 15 32	14 21 36
	DEC	17 13 6	17 3 9		DEC	14 4 16	14 9 31
<u> </u>		1	<u> </u>	11	<u> </u>	<u> </u>	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1811.		d. h. m.	d. h. m.	A.D. 1814.		d. h. m.	d. h. m.
Δ.	JAN	12 17 0	12 20 38	March.	JAN	9. 8 10	9 16 43
March.	FEB	11 5 44	11 7 0	d. h. m.	Feb	7. 20 54	8 9 32
d. h. m.	0	26 0 6	26 8 40	9 7 51	Mar	9 9 38	9 23 30
9 14 25	MAR	12 18 28	12 16 48		APRIL	7 22 22	8 10 28
1	APRIL	11 7 12	11 2 29		MAY .	7 11 6	7 19 2
1	MAY .	10 19 56	10 12 46		June.	5 23 50	6 2 6
1	June .	9. 8 40	9 0 23		JULY.	5 12 34	5 8 44
1	July .	8 21 24	8 13 48		Aug	4 1 18	3 16 3
1	Aug	7 10 8	7 4 58		SEPT	2 14 2	2 1 7
	0	22 4 30	22 0 39		Oct	S 2 2 46	1 12 47
	SEPT	5 22 52	5 21 24		001	31 15 30	31 3 33
1	Ocr	5 11 86	5 14 13		Nov	30 4 14	29 21 5
	Nov	4 0 20	4 6 32		0	§14 22 36	15 1 21
	DEC	3 13 4	3 21 38		DEC	29 16 58	29 16 20
		(2 1 49	2 11 9		_		
1812.	JAN	81 14 88	81 22 54	1815. c.	JAN	28 5 43	28 11 44
G.F.	77		15 8 12	H	FEB	26 18 27	27 5 36
1	FEB.	(1 3 17	1 9 0	9 13 40	MAR.	28 7 11	
8 20 14	MAR.		30 17 48		APRIL	26 19 55	1
	A	1 20 1 12	29 1 56		MAY .		1
	APRIL	1	28 10 17		0	{10 3 1	
ŀ	MAY			ļļ	JUNE	1	1 1
	JUNE	00 40 45	26 7 83		JULY		
	July	(10 13 19	177		Aug.		
1	0	K 02 - 42		4	SEPT.	1	1
	Aug.	1 10 00 00	1		Oct.	. 21 0 1	
	SEPT.	28 9 9	1		Nov.		8 19 1 8
	Oct.				120	4 7 2	T-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	Nov.	01 10 97			DEC.	. 119 1 4	7 18 17 4
	Drc.			1816.	Jan.	. 17 14 8	2 17 11 3
1813.	JAN.	. 19 28 29		B.A.	FEB.		1, 100000
ъ.	0	8 17 4	1	0 10 0			0 16 23 47
	FEB.	. [ (	6 19 0 8	·	APRI		1000
9 2	8 MAR.		1	11	MAY	-	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	APRI	1		11	0	29 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	MAY	1		11	JUNE		
1	June		2 16 9 4	- 11	Julx		L Tive Sales
	July	12 .	مسسيدان	. 11	Aug	1	1 2 7 2 2 2 2 2 2 2
	0	(	8 81 5 18	11	SEPT		The Sales of Colors
	Aug.	1	1	` 11	Oct.		8 9 157
	SEPT	ì	1	11	Nov		<b>一种,这种是一种的</b>
-	Ocr.	. 12 17 5		9   '	100	22 16.	14 99 99 6
1	Nov.			- H	DEC.	2 2 2	Ultimation control
	Dgc.	. 10 19 2	6 10 21 5	2			11
ł		1	1	11	<del></del>	100	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1817. G. March. d. h. m. 9 1 18	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEFT OCT NOV DEC	d. h. m. 5 23 20 4 12 4 6 0 48 4 13 32 4 2 16 2 15 0 { 2 3 44 { 31 16 28 30 5 12 28 17 56 28 6 40 26 19 24 26 8 8	d. h. m. 5 14 47 4 6 39 5 23 36 4 16 46 4 9 6 2 23 48 2 12 30 31 23 21 30 9 0 23 18 16 28 3 54 26 14 20 26 1 43	A.D. 1820. D.C. March. d. h. m. 8 18 44	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG O SEPT OCT	d. h. m.  3 14 30 2 8 14 { 2 15 58 {17 10 20 { 1 4 42 { 30 17 26 30 6 10 28 18 54 28 7 38 26 20 22 { 10 14 44 { 25 9 6 24 21 50	d. h. m.  3 19 38 2 6 18 2 16 10 17 20 56 1 1 34 30 11 12 29 21 51 28 10 12 28 0 30 26 16 31 10 8 36 25 9 28 25 2 24
1818. F. 9 7 7	JAN FEB MAR O APRIL MAY . JUNE . JULY . ÀUG SEPT O OCT Nov DEC	24 20 58 23 9 37 24 22 21 8 16 48 23 11 5 22 23 49 21 12 83 21 1 17 19 14 1 18 2 45 2 21 7 17 15 29 16 4 13 15 16 57	24 14 9 28 8 39 24 18 10 9 2 49 28 9 31 28 1 13 21 16 34 21 6 58 19 20 6 18 8 5 2 7 42 17 19 17 16 6 9 15 17 0	1821. B. 9 0 33	Nov DEC  JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	23 10 84 22 23 18 21 12 2 20 0 46 21 13 81 20 2 15 19 14 59 18 8 48 17 16 27 16 5 11 14 17 55 14 6 89 12 19 28 12 8 7	28 18 27 28 8 56 21 21 86 20 8 24 21 17 87 20 1 48 19 9 44 17 18 25 17 4 52 15 17 49 14 9 28 14 8 1 12 21 87 12 15 46
1819. E. 9 12 56	JAN FEB MAR O APRILI MAY JUNE JULY AUG. SEPT O OCT. Nov. DEC.	12 18 26 (14 7 10) (29 1 32) 12 19 54 12 8 38 10 21 22 10 10 6 8 22 50 (7 11 34) (22 5 56 7 0 18 5 18 2	14  8 52 12 14 48 14  2  3 29 15 81 12 18 58 12  2 59 10 17 14 10  8 26 9  0  8 7 15 28 21 17 18 7  5 57 5 19 31 5  8 4	1822. A. 9 6 22	Jan O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV	10 20 51 25 15 13 9 9 35 10 22 20 9 11 4 8 28 48 7 12 32 7 1 16 21 19 38 5 14 0 4 2 44 3 15 28 2 4 12 1 16 56 81 5 40	22 2 49 5 1 88 8 18 8 8 8 85 1 20 56 1 16 5

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D.				A D			
1823.		d. h. m.	d. h. m.	A.D. 1826.		d. h. m.	d. h. m.
G.	0	∫15 0 2	14 19 46	C.	JAN.,	26 9 33	
March.	JAN	129 18 24	30 5 29	March. $d. h. m.$	FEB.	24 22 17	05
d. h. m.	Feb	28 7 8	28 20 53	9 5 37	MAR.	26 11 2	24 18 54
9 12 11	MAR	29 19 52	30 9 14		APRIL	24 23 46	26 11 48 25 4 28
	APRIL	28 8 36	28 18 49		0	9 18 8	25 4 28 9 17 48
	MAY.	27 21 20	28 2 26		MAY.	124 12 30	24 20 0
	June.	26 10 4	26 9 8		JUNE.	23 1 14	23 9 47
	0	<i>{</i> 11 4 26	11 5 59		JULY.	22 13 58	22 21 40
	July.	125 22 48	25 16 0		Aug	21 2 42	21 8 3
	Aug	24 11 32	24 0 7		SEPT	19 15 26	19 17 39
	SEPT	23 0 16	22 10 30		Oct	19 4 10	19 3 16
	Oct	22 18 0	21 23 47		0	∫ 2 22 32	2 18 28
	Nov	21 1 44	20 16 3		Nov	17 16 54	17 13 25
	DEC	20 14 28	20 10 36		DEC	17 5 38	17 0 21
	0	(4 8 51	4 11 20				
1824.	JAN.	19 8 13	19 6 24	1827.	JAN	15 18 22	15 12 10
F.E.	FEB	17 15 57	18 0 48	в.	FEB	14 7 6	14 0 54
8 18 0	MAR.	18 4 41	18 17 22	9 11 26	MAR.	15 19 51	15 14 37
	APRIL	16 17 25	17 6 57		APRIL	(14 8 35	14 5 18
	MAY .	16 6 9	16 17 37		0	129 2 57	29 10 49
	JUNE .	(14 18 58	15 2 1		MAY .	13 21 19	13 20 40
	0	29 18 15	29 6 45		JUNE.	12 10 3	12 12 11
	July .	14 7 87	14 9 13		July.	11 22 47	12 3 12
	Aug	12 20 21	12 16 18		Aug	10 11 31	10 17 11
	SEPT	11 9 5	11 0 16		SEPT	9 0 15	9 6 0
	Oct	10 21 49	10 10 8	ļ	Oct	ſ 8 <b>12</b> 59	8 17 49
	Nov	9 10 88	8 22 11		0	123 7 21	22 19 20
	DEC	8 28 17	8 12 57	]	Nov	7 1 48	7 5 4
1825.	Jan	7 12 1	7 5 56		DEC	6 14 27	6 16 3
ນ.	FEB.	6 0 45	6 0 15			1	4.5
8 28 9	MAR.	7 18 29	7 18 87	1828.	JAN	5 8 11	5 2 54
0 200	Arnin	6 2 18	6 11 41	A.G.	FEB	8 15 55	3 13 40
	MAY.	( 5 14 57	6 2 28	8 17 15	MAR	4 4 39	4 0 28
	0	20 9 19	20 2 25		APRIL	2 17 23	2 11 42
	JUNE.	4 8 41	4 14 38		MAY.	§ 2 6 7	1 28 50
	JULY .	8 16 25	4 0 82			₹31 18 51	31 13 16
		(2 5 9	2 8 58		June.	80 7 85	30 3 57
	Aug	81 17 58	81 16 59		July .	29 20 19	29 19 31
	SEPT	80 6 87	30 1 28		A.vg	28 9 3	28 11 16
	Oct	29 19 21	29 11 12		Sept.,	26 21 47	27 2 83
	0	(18 18 48	18 18 88		Ост	26 10 31	26 16 56
	Nov	28 8 5	27 22 88		Nov.	24 28 15	25 6 14 5
	DEC	27 20 49	27 11 44		DEC	24 11 59	24 18 24
					1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1829.		d. h. m.	d. h. m.	A.D. 1832.		d. h. m.	d. h. m.
F.	JAN	23 0 44	23 5 31	C.B.	JAN	20 15 54	21 0 45
75 7	FEB	21 13 28	21 15 36	March. $d. h. m.$	FEB	19 4 38	19 17 32
d $h$ $m$ .	0	(8 7 50	8 16 9	8 16 30	MAR	19 17 22	20 7 21
8 23 4	MAR	23 2 12	23 0 57		APRIL	18 6 6	18 18 10
	APRIL	21 14 56	21 10 7		MAY .	17 18 50	18 2 35
1	MAY.	21 3 40	20 19 55		JUNE.	16 7 34	16 9 34
	JUNE.	19 16 24	19 7 11		July.	15 20 18	15 16 13
	JULY.	19 5 8	18 20 26		Aug.	14 9 2	13 23 39
	Aug	17 17 52	17 11 42		SEPT.	12 21 46	12 8 53
	0	(1 12 14	1 8 31		Oct	12 10 30	11 20 45
	SEPT	16 6 86	16 4 29		Nov.	10 23 14	10 11 36
	Oct.	15 19 20	15 21 48		DEC.	(10 11 58	10 5 8
	Nov.	14 8 4	14 14 39		0	1 25 6 20	25 10 19
	DEC	13 20 48	14 6 11				
				1833.	JAN	9 0 42	9 0 17
1830. E.	JAN	12 9 33	12 19 53	A.	FEB	7 13 27	7 19 31
E.	FEB	∫10 22 17	11 7 32	8 22 19	MAR.	9 2 11	9 13 11
	-0	25 16 39	25 15 50		APRIL	7 14 55	8 4 18
9 4 52	MAR.	12 11 1	12 17 21		MAY .	7 3 39	7 16 16
	APRIL	10 23 45	11 1 46		JUNE .	6 5 16 23	6 1 42
	MAY.	10 12 29	10 9 4		0	20 10 45	20 3 2
	June.	9 1 13	8 17 33		JULY .	5 5 7	5 9 24
	July.		8 2 53		Aug	3 17 51	3 16 31
1	Aug	14			SEPT	2 6 35	2 0 8
	0	(21 21 3	1			( 1 19 19	1 8 59
	SEPT.	1			Ocr	<b>31 8 3</b>	80 20 0
	Ocr.				Nov.	29 20 47	29 9 29
	Nov.	1			0	(14 15 9	14 23 57
	DEC.	. 3 5 37	3 10 52		DEC	29 9 31	29 1 20
1831.	* T	(1 18 2)	2 4 26				
D.	Jan.	' {81 7 €	31 19 44	1834.	JAN	27 22 15	27 18 57
	FEB.	0 15 1 27	14 19 15	G.	FEB	26 10 59	26 13 17
9 10 41	MAR.	f 1 19 49	9 2 8 19	9 4 8	MAR.	27 23 43	28 6 57
9,10 41	MAR.	' \[ \{ 8 1 8 3 \}	8 31 18 22		APRIL	26 12 27	26 22 52
	APRII	29 21 17	7 30 2 27		MAY .	26 1 11	26 12 20
	MAY	. 29 10 1	1 29 9 28	1	_ 0	$\int 9 19 33$	9 10 48
	June	. 27 22 43	27 16 25		June.	24 13 55	24 23 22
	JULY	. 27 11 29	9 27 0 27		JULY.		24 8 33
	0	ſ11 5 5	1 11 12 25		Aug	22 15 23	22 16 50
	Aug.		3 25 10 37		SEPT	21 4 7	21 1 12
	SEPT.			-	Oct	20 16 51	20 10 25
	Oct.		1		Nov	19 5 35	18 21 2
	Nov.	1			120	8 23 57	
	DEC.	. 22 3	9 22 5 50	·	DEC.	18 18 19	18 9 16
<u> </u>		1	1	11	1	1	1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1835.		d. h. m.	d. h. m.	A.D. 1838.		d. h. m.	d. h. m.
March.	JAN	17 7 3	16 23 11	B.	JAN.	13 22 14	14 4 33
d. h. m.	FEB	15 19 47	15 14 35	March. $d. h. m.$	FEB.	12 10 58	12 15 0
9 9 57	MAR	17 8 32	17 7 0	9 8 28	MAR.	ſ13 28 42	14 0 28
	APRIL	15 21 16	15 23 40		0	28 18 4	29 4 12
	MAY.	[15 10 0	15 15 45		APRIL	12 12 26	12 9 21
l	0	130 4 22	30 1 7		MAY .	12 1 10	11 18 33
	June .	13 22 44	14 6 27		JUNE.	10 13 54	10 4 47
	JULY .	13 11 28	13 19 22		JULY .	10 2 38	9 16 54
1	Aug	12 0 12	12 6 89		Aug	8 15 22	8 7 12
	SEPT	10 12 56	10 16 49		SEPT	7 4 6	6 23 27
	Oct	10 1 40	10 2 37		0	21 22 28	21 16 44
	Nov	8 14 24	8 12 38		Ocr	6 16 50	6 16 51
	DEC	8 8 8	7 28 15		Nov.	5 5 34	5 10 19
					DEC	4 18 18	5 2 49
1836.	JAN	6 15 53	6 10 85				
E.D.	FEB	5 4 37	4 22 39	1839.	JAN	3 7 2	8 17 36
8 15 45	MAR	5 17 21	5 11 86	A.	FEB.	1 19 46	2 6 14
	APRIL	<b>∫ 4</b> 6 5	4 1 30	9 9 12	MAR.	3 8 30	8 16 50
	0	19 0 27	19 10 86		APRIL	1 21 14	2 1 43
	MAY.	3 18 49	<b>3</b> 16 19			(1 9 58	1 9 80
	JUNE.	2 7 33	2 7 41		MAY.	30 22 42	80 17 6
	JULY .	1 20 17	1 23 2		June .	29 11 26	29 1 33
		181 9 1	81 18 45		JULY .	29 0 10	28 11 53
	Aug	29 21 45	80 8 28		Aug	27 12 54	27 0 51
	SEPT	28 10 29	28 15 57		SEPT.	26 1 88	25 16 86
	0	<b>∫18 4 51</b>	12 15 80		Ocr	25 14 22	25 10 93
	Oct	127 28 18	28 8 48		Nov.	24 8 6	24 5 81
	Nov	26 11 57	26 15 1		DEC.	28 15 50	28 28 57
	DEC	26 0 41	26 1 58		,		
1837.	JAN.	24 18 25	24 12 41	1840.	JAN	22 4 34	99 16 99
с.	FEB.	28 2 9	22 28 16	G.F.		6 22 56	22 16 88 5 16 14
8 21 84	MAR.	24 14 58	24 9 57		O Feb	20 17 18	21 6 29
	0	(8 9 15	8 28 4	8 15 1	MAR.	21 6 8	21 17 41
	APRIL	28 8 87	22 21 16	0 -0 -	APRIL	19 18 47	20 2 81
	MAY.	22 16 21	22 9 47		MAY.	19 7 81	19 9 50
	June .	21 5 5	20 28 44		June .	17 20 15	17 16 85
	July.	20 17 49	20 14 55		JULY.	17 8 59	17 0 81
	Aug.	19 6 83	19 6 49		0	(1 8 21	1 9 44
	SEPT.	17 19 17	17 22 89		Aug.	15 21 48	15 8 55
	0	( 2 18 89	2 1 22		SEPT.	14 10 27	18 20 82
	Oct	17 8 1	17 18 10		Ocr	18 28 11	18 11 18
	Nov.	15 20 45	16 8 57		Nov.	12 11 55	12 4 44
	DEC.	15 9 29	15 16 52		DEC.	12 () 89	12 0 1
						00	
		 	i i	1			والمناه المنطمي

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1841.		d. h. m.	d. h. m.	A.D. 1844.		d. h. m.	d. h. m.
Е.	JAN	(10 13 24	10 19 30	B.A.	JAN	8 4 34	7 20 21
	0	25 7 46	25 4 33	March.	FEB	6 17 18	6 10 50
March.	FEB	9 2 8	9 13 28	d. h. m. 8 14 16	MAR.	7 6 2	7 2 30
d. h. m. 8 20 50	MAR.	10 14 52	11 4 45	0 11 10	APRIL	5 18 46	5 18 53
8 20 30	APRIL	9 8 36	9 16 57		MAY.	(5 7 30	5 11 10
	MAY.	8 16 20	9 2 22		0	20 1 52	20 1 20
	JUNE.	7 5 4	7 9 54		JUNE .	3 20 14	4 2 35
1	JULY.	(61748	6 16 36		JULY .	3 8 58	3 16 30
	O O	21 12 10	21 12 31		JULI.	(1 21 42	2 4 45
		·	4 23 33		Aug	.81 10 26	31 15 38
	AUG	1 1			C	29 23 10	30 1 48
	SEPT	3 19 16	3 7 53   2 18 28		SEPT.	29 25 10	29 11 58
	Oct	3 8 0 1 20 44			Oct	(13 6 16	13 2 15
1	Nov				0	12	27 22 20
	Dec	1 9 28	1 0 10		Nov.	28 0 38	27 22 20
		(30 22 12	30 18 37		DEC	27 18 22	21 9 11
		(14 16 34	14 20 14				
1842.	O Jan	29 10 56	29 13 53	1845.	JAN	26 2 6	25 20 51
D.	FEB	27 23 40	28 8 23	G.	FEB	24 14 50	24 9 5
9 2 38	MAR.	29 12 24	30 0 43	8 20 5	MAR	26 8 84	25 22 10
0 2 30	APRIL	28 1 8	28 14 12		APRIL	24 16 18	24 12 16
	MAY.	27 13 52	28 0 50.		0	9 10 40	9 18 26
	JUNE.	26 2 36	26 9 20		MAY .	24 5 2	24 8 18
1		(10 20 58	10 13 19		JUNE.	22 17 46	22 18 36
Ì	JULY.	25 15 20	25 16 42		JULY .	22 6 30	22 9 47
1	1	1			Aug	20 19 14	21 0 18
i	AUG	1	24 0 3		SEPT	19 7 58	19 18 86
	Oct.		22 8 21		Oct	18 20 42	19 2 2
	Nov.	1	21 18 24		0	(215 4	2 8 15
	DEC.		20 6 41 19 21 20		Nov	17 9 26	17 18 46
	DEC	20 1 0	19 21 20		DEC	16 22 10	17 1 0
1843.	JAN.	18 19 45	18 14 3				
c.	FEB.	17 8 29	17 7 57	1846.	JAN	15 10 55	15 11 50
9 8 27	MAR.	. 18 21 13	19 1 54	F.	FEB.	13 23 39	13 22 18
	APRIL	17 9 57	17 18 39	9 1 54	MAR.	15 12 23	15 8 36
	MAY .	. 16 22 41	17 9 21		APRIL	14 1 7	13 19 16
	June .	. 15 11 25	15 21 36		MAY .	13 13 51	13 6 51
	JULY	. 15 0 9	15 7 44	-	June .	12 2 35	11 19 53
	Aug.	. 13 12 53	1	1	JULY .	11 15 19	11 10 27
	SEPT.	. 12 1 37	12 0 58		Aug.		10 2 10
	Ocr.	. 11 14 21	1		SEPT.	1	8 18 20
	Nov.	. (10 3 5	9 19 54	1	Oct.	8 5 81	8 10 18
	0	24 21 27			Nov.	6 18 15	7 1 11
	DEC.	9 15 49	9 7 21		DEC.	6 6 59	6 14 55
	_1	1			1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1847.		d. h. m.	d. h. m.	A.D. 1850.		d. h. m.	d. h. m.
E. March.	Jan Feb	4 19 44 3 8 28	5 3 18 3 14 18	<b>A.</b>	JAN	1 10 53 30 23 37	1 13 51 31 8 44
d. h. m. 9 7 43	Mar		5 0 3 19 23 27	March. d. h. m.	FEB		2 1 23
	APRIL May.	3 9 56 2 22 40	3 8 58 2 17 39	9 1 9	Mar	81 1 5 29 13 49	81 15 2 30 1 42
	JUNE .	1 11 24	(132		MAY.	29 2 33	29 10 0
	July.	{ 1 0 8 { 30 12 52	80 13 59 80 8 9		JUNE. JULY.	27 15 17 27 4 1	27 16 58 26 23 44
	Aug	29 1 36	28 18 34		Aug.	25 16 45	25 7 21
	0	(12 19 58	12 16 88		SEPT.	24 5 29	23 16 48
	SEPT	27 14 20	27 11 41		Ocr	23 18 18	23 4 52
	Ocr	27 3 4	27 5 80		Nov.	22 6 57	21 19 47
	Nov	25 15 48	25 22 51		DEC	21 19 41	21 13 15
	DEC	25 4 82	25 14 44	1051	0	5 14 8	5 19 15
1848.	Jan	23 17 16	24 4 81	1851. G.	JAN	₹20 8 25°	20 8 11
D.C.	FEB	22 6 0	22 16 3		FEB	18 21 9	19 8 7
	0	8 0 22	7 28 17	9 6 58	MAR	20 9 54	20 20 84
8 13 31	MAR	22 18 44	28 1 88		APRIL	18 22 38	19 11 26
	APRIL	21 7 28	21 9 86		MAY.	18 11 22	18 23 26
	MAY.	20 20 12	20 17 0		JUNE.	17 0 6	17 8 55
	June.	19 8 56	19 0 46		~ 0	1 18 28	1 9 41
	July:	18 21 40	18 9 58		JULY.	(16 12 50	16 16 48
	Aug	17 10 24	16 21 84		Aug	15 1 84	15 0 10
	0	5 1 4 46	1 8 27		SEPT	18 14 18	18 8 8
	SEPT	15 28 8	15 12 1		Oct	18 8 2	12 17 18 11 4 81
	Our.	15 11 52	15 5 6		Nov.	11 15 46	11 4 81 10 17 59
	Nov	14 0 86	18 28 55		DEC	(11 4 80 (25 22 52	26 8 87
	DEC	18 18 20	18 18 57	1852.	_		9 9 87
1849.	JAN	12 2 5	12 12 48	F.E.	JAN	1	8 2 50
В.	FEB	§10 14 49	11 4 2	8 12 47	FEB.	8 5 59 8 18 48	8 20 41
	0	25 9 11	25 8 16	0 12 41	MAR.	7 7 27	7 18 59
8 19 20	MAR	12 8 88	12 16 29		APRIL	6 20 11	7 5 42
	APRIL	10 16 17	11 2 16		MAY.	1	5 19 11
	MAY.	10 5 1	10 10 7	,	June.	5 8 55	19 17 50
	June .	8 17 45	8 16 46			4 21 89	5 6 25
	Jun.	8 6 29	7 28 49		JULY .	8 10 28	8 15 57
	Aug	6 19 13	6 7 51		SEPT	1 28 7	2 0 89
	0	21 18 85	21 19 87		DEPT	(1 11 51	1 9 28
	SEPT	5 7 57	4 18 7		Ocr	81 0 85	80 19 8
	Oct	4 20 41	4 7 19		Nov	29 18 19	29 5 51
	Nov	8 9 25	2 28 86		0	(14 7 41	14 15 81
	DEC	2 22 9	2 18 18		DEC.	29 2 8	1

					***************************************		****
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. Full Ecl.)
A.D. 1853.		d. h. m.	d. h. m.	A.D. 1856.	***************************************	d. h. m.	d. h. m.
D.	JAN	27 14 47	27 7 36	A.G.	JAN	25 5 57	25 18 21
March.	FEB	26 3 31	25 22 27	March.	FEB.	23 18 41	28 28 84
d. h. m. 8 18 35	MAR.	27 16 15	27 14 15	d. h. m. 8 12 2	MAR.	21 7 25	24 8 88
0 10 00	APRIL	26 4 59	26 6 26	V	O	CH 1 47	8 11 17
	MAY.	25 17 48	25 22 16		APRIL.	22 20 9	22 17 7
		(9 12 5	9 8 31		MAY.	22 8 58	22 1 49
1	O June.	$\begin{cases} 3 & 12 & 3 \\ 24 & 6 & 27 \end{cases}$	24 18 8		June .	20 21 87	20 11 44
1		23 19 11	24 2 16		July .	20 10 21	19 23 89
	JULY.	25 19 11	22 14 1			18 28 5	18 14 0
	Aug.				Aug.	17 11 49	17 6 80
	SEPT	20 20 39	21 0 44 20 11 8		SEPT	(2 6 11	2 1 0
	Oct	20 9 23			O	17 0 88	17 0 19
	Nov.	18 22 7	18 21 28		Ocr	15 18 17	15 18 17
	DEC	18 10 51	18 8 13		Nov.		15 11 12
1854.	т	16 23 36	16 19 24		DEC.	15 2 1	10 11 12
C.	JAN	15 12 20					
9 0 24	FEB	17 1 4	15 7 4 16 19 25	1857.	JAN	18 14 46	14 2 11
9 0 24	MAR.	1		F.	FEB	12 8 80	12 14 48
	APRIL	(15 13 48) (30 8 10	15 8 41	8 17 51	MAR	18 16 14	14 1 10
	7/5		30 18 15		APRIL	12 4 58	12 9 41
	MAY .	15 2 32 13 15 16	14 23 0		MAY .	11 17 42	11 17 8
	JUNE.		18 14 7		JUNE .	10 6 26	10 0 26
	JULY .	1	18 5 81		JULY .	9 19 10	9 8 48
	Aug.		11 20 33		Aug	8 7 54	7 19 0
	SEPT.	1	10 10 45		SEPT	6 20 88	688
	Oct.	9 18 12	9 28 57		Ocr	6 9 22	6 0 0
	0	24 12 34	28 28 26		Nov.	4 22 6	4 18 14
	Nov.		8 12 16		DEC	4 10 50	4 18 29
	DEC.	7 19 40	7 28 58				1
1855.	JAN.	. 6 8 25	6 10 57	1858.	JAN	2 28 85	8 8 12
В.	FEB.		4 21 28	E.	FEB.	( 1 12 19	2 0 49
9 .6 18	l i		6 5 87		0	16 6 41	16 0 82
	APRII		4 17 45	8 28 40	MAR.	8 1 8	8 14 40
	0	19 16 59			APRIL	1 18 47	2 1 87
	MAY	-	4 4 81		AVA M	( 1 2 81	1 10 14
	JUNE		2 16 34		MAY .	80 15 15	80 17 19
	JULY				JUNE .	29 8 59	29 0 0
	1.	(1 1 99	1101 01 00		July .		28 7 20
1	Aug.	80 14 17	1		0	(12 11 5	
1	SEPT.	1 -			Aug.	13	26 16 26
4	0	(13 21 28			SEPT.	25 18 11	25 4 11
1	OCT.	1)	1		Oct.	25 6 55	24 19 1
	Nov.	1 -			Nov.	28 19 89	28 12 40
	DEC.				DEC.	28 8 28	1
			11	H		- 0 20	-
				- 1	ī	1	1

Mean		Mean New	True New	Mean		Mean New	True New
Vernal Equinox.	Month.	(O Full Ecl.)	Moon. (O Full Ecl.)	Vernal Equinox.	Month.	Moon. (O Full Ecl.)	Moon. (O Full Ecl.)
A.D. 1859.		d. h. m.	d. h. m.	A.D. 1862.		d. h. m.	d. h. m.
D.	JAN	21 21 7	22 3 26	G.	Jan	18 12 17	18 4 55
Manah	0	6 15 29	5 13 15	March. $d. h. m.$	FEB	17 1 1	16 18 54
March. $d. h. m.$	FEB	20 9 51	20 21 17	8 22 55	MAR	18 13 45	18 9 59
9 5 28	MAR	21 22 35	22 12 26		APRIL	17 2 29	17 1 49
	APRIL	20 11 19	21 0 28		MAY .	(16 15 13	16 17 45
	MAY.	20 0 8	20 9 47		0	(81 9 85	31 8 48
	June .	18 12 47	18 17 17		June .	15 8 57	15 9 6
	JULY.	18 1 31	18 0 4		July.	14 16 41	14 23 13
	0	( 1 19 53	1 19 5		Aug	13 5 25	13 11 54
	Aug.	16 14 15	16 7 13		SEPT	11 18 9	11 23 21
	SEPT	15 2 59	14 15 47		Oct	11 6 53	11 10 4
	Oct	14 15 43	14 2 34		Nov.	( 9 19 87	9 20 34
	Nov.	13 4 27	12 16 6		0	24 18 59	24 10 6
	DEC	12 17 11	12 8 21		DEC	9 8 21	9 7 15
						0 0 22	
1860.	JAN	(11 5 56	11 2 38	1000	τ	5 O1 5	7 10 10
C. B.	0	26 0 18	26 5 6	1863. F.	JAN.	7 21 5	7 18 12
	FEB	9 18 40	9 21 37	9 4 44	FEB	6 9 50	6 5 27
8 11 17	MAR	10 7 24	10 15 50	3 9 9 9 9	MAR	7 22 84	7 17 10
	APRIL	8 20 8	9 7 58		APRIL	6 11 18	6 5 41
	MAY .	8 8 52	8 21 21		MAY .	$\begin{cases} 6 & 0 & 2 \\ 0 & 10 & 0 \end{cases}$	5 19 10 21 1 57
	JUNE.	6 21 86	780			(20 18 24	
	JULY.	6 10 20	6 16 39		JUNE -	4 12 46	4 9 45
	0	21 4 42	20 19 57	1	JULY.	4 1 80	2 16 27
	Aug	4 28 4	5 0 17		Aug.	2 14 14	
	SEPT	8 11 48	3 7 57		SEPT	1 2 58	
	Ocr	8 0 82	2 16 36		0	(80 15 42	1
	Nov	1 18 16	( 1 2 55		Oct	80 4 26	
	_	(120	80 15 16		Nov.	18 22 48	
	DEC	80 14 44	80 5 46		-	28 17 10	
					DEC	28 5 54	1 20 0 00
1861.	JAN.		28 22 6		<b>T</b> .		00 00 10
A.	FEB		27 15 82	1864.	JAN.	26 18 89	
8 17 6	MAR	29 4 57	29 9 1	E.D.	FEB.	25 7 28	
	APRIL	27 17 41	28 1 29	8 10 83	MAR.	25 20 7	1 0 0 10
	MAY.	27 6 25	27 16 7		APRIL	24 8 51	
	JUNE .		26 4 81		MAY.	28 21 85	
	July.		25 14 58	11	JUNE .		
	Aug		24 0 11		JULY .		00 0 40
	SEPT		22 9 5		A.ug.		
	Ocr	21 22 5	21 18 25		SEPT.		1 40 4- 40
	Nov.	ŀ	20 4 41		Oor.	18 18 15	
	_ 0	$\int 5 \ 5 \ 11$			Nov.		40.00.00
	DEC.	19 28 88	19 16 10		DEC.	16 14 48	16 28 88
į		1		11	<u> </u>		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Mean   Wonth   Month   Man   New   True   New   Month   Squinox.   Month   M								
1865.	Vernal	Month.	Moon.	Moon.	Vernal	Month.	Moon.	Moon.
March.  6. h. m.  8 16 21  Mar.   15 5 27   15 12 17   18 22 57    Mar.   29 23 17 80 6 35    Mar.   13 6 23   15 12 17    Mar.   13 6 23   15 12 17    Mar.   13 6 23   15 12 17    Mar.   13 17 39   13 16 50    Max.   13 6 23   13 1 5    June   11 19 7   11 10 7 7    July   11 7 51   10 20 51    Aug.   9 20 35 9 9 57    Sept.   8 9 19 8 1 32    O   28 3 41   23 0 41    Oct.   7 22 3   7 19 0    Nov.   6 10 47 6 13 17    Dec.   5 28 31 6 7 4    1869.  B.   Sept.   1 3 26    April   1 3 26    Nov.   3 1 57   2 13 7    Oct.   7 22 3   7 19 0    Nov.   6 10 47 6 13 17    Dec.   5 28 3 1 6 7 4    June   1 3 26    Mar.   4 12 16   4 23 18    Feb.   3 1 0   3 13 3    Mar.   2 15 12   2 17 20    June   1 3 26    June   2 1 3 26    June   2 1 3 26    Mar.   1 4 54 10 89    Mar.   2 15 12   2 17 20    June   2 1 10 16 8    June   2 2 10    Mar.   2 15 12   2 17 7 20    Aug.   2 15 12   2 17 1 20    Aug.   2 15 12   2 17 1 20    Aug.   2 15 12   2 17 1 20    Aug.   2 15 12   2 17 1 20    Aug.   2 15 12   2 17 20    Aug.   2 15 12   2 17 20    Aug.   2 15 12   2 17 20    Aug.   2 1	1865.		d. h. m.	d. h. m.			d. h. m.	d. h. m.
8 16 21  MAR.   (15 4 55) 15 8 22   (2 - h.m.)   (17 2) 11 16 33   (18 4 1) (19 2 38)   (18 4 1) (19 2 38)   (18 4 1) (19 2 38)   (18 4 1) (19 2 38)   (18 4 1) (19 2 38)   (18 4 1) (19 2 38)   (18 4 1) (19 2 38)   (18 4 1) (18 4 1) (19 2 38)   (18 4 1) (19 2 38)   (18 4 1) (19 2 38)   (18 4 1) (18 4 1) (19 2 38)   (18 4 1) (18 4 1) (18 4 1) (19 2 38)   (18 4 1) (18 4 1) (18 4 1) (18 4 1) (19 2 38)   (18 4 1) (18 4	March	JAN	15 3 27	15 12 17		JAN	12 18 37	12 21 46
8 16 21	d. h. m	FEB	13 16 11	13 22 57		FER	11 7 21	11 16 33
C   29 28 17 80 6 85		MAR.	l I	[1]			11 20 5	12 9 4
APRIL   18 17 99   18 16 50   Max   18 6 28   18 1 5   June   11 19 7   11 10 7   July   72 81 1 8 17 28   July   72 81			13		0 0 10			
May   18 6 28 13 1 5   June   11 19 7   11 10 7   July   11 19 7   11 10 7   July   11 7 51   10 20 51   Aug   7 23   1 8 0 25   Aug   7 28   4 15 18   Aug   7 28   Aug   7 28   Aug   7 28   Aug			1 - 1					
June   11 19 7   11 10 7   Julx   11 1 7 51   10 20 51   Aug.   9 20 35   9 57   Sept.   (8 9 19 8 1 182   Oct.   7 22 8 4 17 19 0   Nov.   6 10 47   6 13 17   Dec.   5 28 31   6 7 4   Dec.   5 28 31   6 7 4   Dec.   5 28 31   6 7 4   Dec.   1 3 26   Dec.   1 3 26   Dec.   1 3 26   Dec.   1 3 26   Dec.   1 3 26   Dec.   1 3 26   Dec.   1 3 26   Dec.   1 3 26   Dec.   1 3 26   Dec.   1 3 26   Dec.   Dec.   1 3 26   Dec.   Dec.   1 3 26   Dec.			1				l '	
July   11 7 51 10 20 51   Aug.   6 11 45   6 7 21	1							1
Aug 9 20 35 9 9 57  Sept {8 9 19 8 1 32	i			1				· ·
SEPT   \$8 9 19								
O (28 8 41 28 0 41 Oct 7 22 8 7 19 0 Nov 6 10 47 6 18 17 Dec 5 28 31 6 7 4 Dec 5 28 31 6 7 4 Jan 4 12 16 4 28 18 E. 8 22 10 Arr 4 18 44 5 0 25 Oct 2 10 18 8 6 19 6 39 April . 8 2 28 8 9 88 Max . 2 15 12 2 17 20 June . 8 16 10 10 10 10 10 10 10 10 10 10 10 10 10			1 - 1			SEPT	1	
Oct.   7 22 3 7 19 0   Nov.   6 10 47   6 18 17   Dec.   5 28 81   6 7 4			15					1
Nov.   6   10   47   6   13   17     Dec.   5   28   31   6   7   4   4   28   18   Feb.   3   1   0   3   13   3   8   4   19   6   89   8   19   6   89   8   15   87   Mar.   4   12   16   4   28   18   8   16   4   10   30   16   2   2   10   4   28   18   8   28   4   47   4   4   5   6   5   6   10   28   4   4   5   6   5   6   12   28   4   7   4   4   5   6   10   28   4   4   5   6   5   6   6   22   29   18   5   2   29   18   5   6   10   28   4   4   5   6   10   28   4   4   5   6   10   28   20   28   6   10   28   28   28   28   28   28   28   2		_	1			Nov		
1866.   Jan.   4 12 16   4 23 18   E.     15 21 48   16 4 10   30 16 2				7 19 0		Drc	5 2 14 41	
1866. B. Feb. 8 1 0 8 18 8  8 22 10  MAR. 4 12 16 4 28 18  Feb. 8 1 0 8 18 8  MAY 2 15 12 21 7 20  June 1 3 56 1 0 28  Aug. 28 18 8 28 4 47  O 12 12 30 12 16 19  Sept. 26 19 36 26 12 44  Nov. 25 8 20 25 7 47  Dec. 24 21 4 25 8 2  Peb. 21 22 32 22 12 9  O 8 16 59  April 22 10 22 10 1  MAR. 23 11 16 24 0 27  Arril 22 0 0 22 10 1  MAY 21 12 44 21 17 89  June 1 18 2 56 17 15 22  O 1 21 18 2 255  Sept. 1 16 4 24 15 15 8  Nov. 14 17 8 14 7 31  Dec. 14 5 52 14 212  Nov. 11 8 18 11 3 47  Dec. 14 5 52 14 212			1			10110	رک	31 21 28
B. FE. 8 1 0 8 18 8 8 22 10 MAR. 4 18 44 5 0 25 0 19 8 6 19 6 39 APRIL 3 2 28 3 9 38 MAY 2 15 12 2 17 20 4 20 10 1		DEC	5 23 31	674			1 3 26	
B.   Feb.   3   1   0   3   13   3   3   3   4   13   44   5   0   25   19   8   6   19   6   39   8   15   37   Mar.   1   4   4   11   10   39   30   16   2   2   17   20   30   16   20   30   16   2   30   30   30   30   30   30   30	1866.	TAN	4 12 16	1 92 12	1869.	JAN. O	15 21 48	16 4 10
S 22 10   Mar.					E.		(30 16 10	30 16 2
O   19	8 22 10					FEB		
APRIL   3 2 28   3 9 38   MAX   2 15 12   2 17 20			1.7	•			(1 4 54	1 10 39
MAY. 2 15 12 2 17 20  JUNE. { 1 3 56 1 0 28 80 16 40 30 8 1 }  JULY. 30 5 24 29 17 9  AUG 28 18 8 28 4 47  O {12 12 30 12 16 19 86 22 29 18 32 27 0 16 89 12 10 16 19 86 12 14 16 19 86 12 14 16 19 86 14 16 18 18 11 11 8 18 10 36 18 18 12 18 18 18 18 18 18 18 18 18 18 18 18 18			1 -		8 15 37	MAR	80 17 38	31 3 49
June. \begin{array}{c c c c c c c c c c c c c c c c c c c						APRIL	29 6 22	29 18 32
June. \begin{array}{c c c c c c c c c c c c c c c c c c c							28 19 6	29 6 31
July . 30 5 24 29 17 9 Aug 28 18 8 28 4 47 O		JUNE .	12			1 _	1	27 16 8
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June. 20 1 28 20 0 21  July. 19 14 12 19 7 13  Aug. 18 2 56 17 15 22  O { 1 21 18 2 2 55  Sept. 216 15 40 16 1 46  Oct. 16 4 24 15 15 8  Nov. 14 17 8 14 7 31  Dec. 14 5 52 14 2 12  June. 16 16 38 17 1 58  O (1 11 0 1 0 57  July. 26 5 22 16 18 28  Aug. 14 18 6 14 23 24  Sept. 13 6 50 13 8 36  Oct. 12 19 34 12 17 51  Nov. 11 8 18 11 3 47  Dec. 31 20 21 2 10 14 42	1	APRIL	22 0 0	22 10 1			1	1
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Mean Vernal Equinox.	Month.	Mean New Moon- (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 1871. c. March. d. h. m. 9 3 14	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT	d. h. m. 9 9 47 7 22 31 9 11 15 7 23 59 7 12 43 { 6 1 27 { 20 19 49 5 14 11 4 2 55 2 15 39 { 2 4 23	d. h. m. 9 2 45 7 15 55 9 6 12 7 21 23 7 13 9 6 4 47 20 15 56 5 19 37 4 9 18 2 21 30 2 8 48	A.D. 1874. F. March. d. h. m. 8 20 41	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT	d. h. m. 6 0 57 4 13 41 6 2 25 4 15 9 19 9 81 4 3 58 2 16 87 2 5 21 81 18 5 30 6 49 28 19 38	d. h. m. 6 10 28 4 22 5 6 8 1 4 16 41 19 18 15 4 0 45 2 9 4 1 18 42 81 6 32 29 20 56 28 18 44
1872. B.A. 8 9 3	Nov	28 28 0 28 11 44 22 0 28 20 18 12 20 1 56 8 20 18 18 14 40	1	1875. E. 9 2 30	O OCT NOV DEC  JAN FEB MAR ATRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC.	18 4 22 17 17 6	19 2 15 17 15 24 17 7 84 16 2 2
* 1873. 6. 8 14 52	Jan. Feb.	16 16 8 15 4 52 16 17 86 15 6 20 80 0 42 14 19 4 18 7 48 12 20 82 11 9 16 9 22 0 9 10 4 24 5 7 28 28	16 19 52 15 6 8 16 15 49 15 1 25 2 30 18 42 14 11 40 3 12 28 19 2 12 12 49 3 11 4 7 9 20 40 4 9 18 85 6 28 17 58 8 5 56	8 8 19	JAN. FRB. O MAR. APRIL MAY JUNE JULY AUG. O SEPT. OCT. Nov. DEC.	11 21 80 11 10 14 9 22 58 9 11 45 8 0 2 22 18 4 6 18 10 6 1 5	2 18 8 55 4 27 8 41 6 18 22 38 0 12 9 24 4 11 17 48 8 10 0 47 2 9 7 26 6 7 14 51 8 22 28 45 0 6 0 5 4 5 12 0 8 4 2 58

A.D. 1877. B.  JAN 2 16 7	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Menn New Moon. (O Full Ect.)	True New Moon. (O Full Ecl.)
March.   A	1877.	JAN.			1880. F.E.	Jan		
March. 8 14 7         O. 8 14 7         15 28 18   5 21 51   8 8 7 8 4 8 8 7 8 4 8 8 14 7 8 14 7 80 19 8   1 19 57 80 19 8   1 7 8 90 17 8 9 10 18 27 8 19 90 41 90 17 9 10 16 17						FEB	28 8 45	28 2 54
8 14 7   Mar.   2 17 35   8 458		0	15 23 13	15 21 51	8 7 84	MAR	28 21 29	28 17 23
APRIL   80 19 3		MAR	2 17 35	3 4 58		APRIL	27 10 18	27 8 89
APRIL   30 19 3   1 7 58   30 7 47   30 17 8   30 17 8   30 17 8   30 17 8   30 17 8   30 17 8   30 17 8   30 17 8   30 17 8   30 17 8   30 17 8   30 17 8   30 17 8   30 17 8   30 17 8   30 18   30 18 1 8   30 18 1 8   30 18 1 8   30 18 18   30 18 18   30 18 19 8   30 18   30 18 18   30 18 19 8   30 18   30 18   30 18 18   30 18 19 8   30 18   30 18 18   30 18 19 8   30 18   30 18   30 18   30			(1 6 19	1 19 57		MAY .	26 22 57	27 0 17
MAY   SO 7 47   SO 17 8   JUNE   25 10 41   25 15 85     JULY   28 9 15 28 7 38   O   (12 8 37 12 1 44   26 21 59 26 15 2   Sept.   25 10 43 24 28 50   Oct.   24 28 27 24 10 49   Nov.   28 28 12 11 23 0 26   Dec.   28 0 55 22 16 85     1878.		APRIL	30 19 3	(1 7 53			j10 17 19	10 16 17
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O		June .	28 20 31	29 0 41		July .	25 0 25	25 5 59
Aug   26 21 59   26 15 2		JULY.	28 9 15	28 7 38		Aug	28 18 9	28 19 8
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Nov.   28 12 11   28 0 26     Dec.   19 16 5   19 16 14		SEPT	25 10 43	24 23 50		Nov		
1878.		Ocr	24 23 27	24 10 49		0	1 4 21 48	4 18 2
1878. A. O		Nov	23 12 11	23 0 26		DEC	19 16 5	19 16 14
Name		DEC	28 0 55	22 16 35				
A. O	1878	TAN	21 12 40	21 10 96	1881.	JAN	18 4 49	18 3 5
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S 19 56		1	13 1		8 13 23	MAR	18 6 17	18 1 7
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Ocr 3 17 4 8 17 18 Nov 2 5 48 2 3 3 Dec. 0 16 12 54 16 18 44  Aug 81 19 80 81 15 44  Sept 80 8 14 80 8 49  Ocr 29 20 58 80 1 50  Nov 28 9 42 28 17 52		Aug	5 15 36	5 22 14		Jara.		1
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1883.		d. h. m.	d. h. m.	A.D. 1886.	***************************************	d. h. m.	d. h. m.
В.	JAN	26 11 11	26 20 51	E.	JAN	23 2 21	23 5 40
March. $d. h. m.$	FEB	24 23 55	25 7 80	March. $d.$ $h.$ $m.$	FEB	21 15 5	22 0 16
9 1 0	MAR	26 12 39	23 16 34	8 18 27	MAR	23 3 49	23 16 35
	0	[s10 7 1]	10 13 37		APRIL	21 16 33	22 5 57
	APRIL	125 123	25 0 37		MAY .	21 5 17	21 16 27
	MAY .	24 14 7	24 8 30		JUNE .	19 18 1	20 0 45
	June .	28 2 51	22 17 13		July .	19 6 45	19 7 56
	JULY.	22 15 35	22 3 47		Aug	17 19 29	17 15 4
	Aug	21 4 19	20 16 54		SEPT	16 8 13	15 23 12
	SEPT	19 17 8	19 8 40		Ocr	15 20 57	15 9 11
	0	f 4 11 25	4 8 58		Nov	14 9 41	13 21 31
	Oct	19 5 47	19 2 30		DEC	13 22 25	18 12 24
	Nov	17 18 31	17 21 10				
	DEC	17 7 15	17 15 17	1887.	JAN	(12 11 9	12 5 28
1004	T	15 19 59	16 7 38	D.	0	27 5 81	27 12 57
1884.	JAN	14 8 43	14 21 27		FEB	10 23 58	10 23 45
	FEB.	(14 21 27	15 8 86	9 0 16	MAR.	12 12 37	12 18 1
8 6 49	MAR	29 15 49	29 18 52		APRIL	11 1 21	11 10 58
	0	13 10 11	18 17 32		MAY .	10 14 5	11 1 30
	APRIL	12 22 55	13 0 58		JUNE.	9 2 49	9 13 31
	MAY .	11 11 89	11 7 52		July.	( 8 15 83	8 23 20
	JUNE.	11 0 23	10 15 19		0	28 9 55	22 28 10
	JULY.	9 13 7	9 0 26		Aug.	7 4 17	7 7 46
	Aug	(8 1 51	7 12 7		SEPT.	5 17 1	5 15 51
1	SEPT	22 20 18	23 0 15		Ост	5 5 45	5 0 80
	OCT.	7 14 85	7 2 54		Nov.	8 18 29	8 10 28
	Nov.	6 8 19	5 20 27		DEC.	. 8 7 18	2 21 52
		5 16 8	5 15 42				
	DEC	3 10 3				( 1 19 57	1 11 8
1885.	JAN	4 4 48	4 11 5	1888.	JAN.	11	
F.	FEB	2 17 32	8 4 56	С.В.	U ALIA	81 8 41	
8 12 38	MAR.	4 6 16			FEB.		
	0	19 0 88		8 6 5			11 /4
	APRIL	2 19 0			APRIL		
	MAY .	{ 2 7 44	1		MAY		1
		(81 20 28	1) 1 1 0		June		V
	JUNE .		1		0	(11 18 4	
	JULY		1		July	15	6 26 20 84
	A.vg.	1			A.ug.		1 7 7 7
	, 0	{12 5 9			SEPT.		and the control designs
	SEPT.	1	1		Oor.	. 28 8 18	3 28 2 22
	Ocr.	. 26 12 8			Nov.	. 21 16	
	Nov.	. 25 0 52			DEC.	. 21 4 40	al District day (all all all all all all all all all al
	DEC.	. 24 18 86	24 10 12				

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1889.		d. h. m.	d. h. m.	A.D. 1892.		d. h. m.	d. h. m.
Α.	0	r 4 23 8	5 7 54	E.D.	JAN	17 8 41	17 19 11
	JAN	19 17 30	19 11 27	March.	FEB	15 21 25	16 6 41
March.	FEB	18 6 14	18 0 8	d. h. m. 8 5 20	MAR.	16 10 9	16 16 20
d. h. m. 8 11 53	MAR.	19 18 59	19 13 49	6 5 20		1	15 0 37
0 11 00	APRIL	18 7 43	18 4 26		APRIL	$\begin{cases} 14 & 22 & 58 \\ 00 & 17 & 15 \end{cases}$	
	MAY.	17 20 27			0	29 17 15	30 1 4
	JUNE .	l	17 19 45		MAY.	14 11 37	14 8 17
		1	16 11 14 30 23 22		June.	13 0 21	12 16 18
	_ 0	11 - 0 00 1			July.	12 13 5	12 1 45
	JULY.	15 21 55	16 2 14		AυG	<b>11 1 4</b> 9	10 13 31
	Aug	14 10 39	14 16 14		SEPT.	9 14 33	9 4 3
(	SEPT	12 23 23	13 5 5		Ост	§ 9 3 17	8 21 5
	Ocr	12 12 7	12 16 57		0	23 21 39	23 17 57
	Nov	11 0 51	11 4 17		Nov	7 16 1	7 15 41
	DEC	10 13 35	10 15 17		DEC	7 4 45	7 10 26
1890.	JAN	9 2 19	9 2 9				
G.	FEB.	7 15 3	7 12 47	1893.	JAN	5 17 29	6 3 54
8 17 42	MAR.	9 8 47	8 23 34	c.	FEB.	4 6 13	4 19 3
0 11 42		7 16 31		8 11 9	MAR.	5 18 57	6 7 27
	APRIL	1	7 10 44	0 11	APRIL	4 7 41	4 17 17
	MAY.	13	6 22 51		MAY.	3 20 25	4 1 14
	0	121 23 37	22 9 12		JUNE .	2 9 9	2 8 10
	JUNE.	5 17 59	5 12 16		JUNE .	( 1 21 58	1 15 9
	JULY.	5 6 43	5 3 0		JULY .	31 10 37	30 23 16
	Aug	3 19 27	3 18 38		1	29 23 21	29 9 38
	SEPT	2 8 11	2 10 28	H	Aug	28 12 5	27 22 55
	Ocr	$\begin{cases} 1 & 20 & 55 \end{cases}$	2 1 49		SEPT	28 0 49	27 15 14
	1	(31 9 39	31 16 14		Oct	26 13 33	26 9 58
'	0	\{\begin{array}{c ccccccccccccccccccccccccccccccccccc	14 15 47		Nov.		26 5 28
	Nov.	l.	30 5 33		DEC	26 2 17	20 0 20
	DEC	29 11 7	29 17 42		ļ		
1891.	JAN.	. 27 23 52	28 4 43	1894.	JAN	24 15 2	25 0 18
F.	FEB.	. 26 12 36	26 14 40	В.	FEB	23 3 46	23 16 52
8 23 31	MAR.	. 28 1 20	27 23 54		0	∫ 9 22 8	
	APRIL	26 14 4	26 9 0	8 16 58	MAR	124 16 30	i
		(11 8 26	11 20 50		APRIL	23 5 14	23 17 8
	MAY	126 248	25 18 48		MAY .	22 17 58	23 1 19
	JUNE	. 24 15 32	24 6 6		JUNE .	21 6 42	21 8 14
	JULY	1	23 19 28	1	JULY .	20 19 26	20 14 56
	Aug.		22 10 54		Aug.	19 8 10	18 22 28
	SEPT.		1		0	∫ 3 2 32	8 6 55
	Ост.	. 20 18 28			SEPT.	17 20 54	17 7 55
	0	( 4 12 50			Oct	17 9 38	16 19 59
	Nov.	. 19 7 12			Nov.	15 22 22	15 11 8
	DEC.	. 18 19 56		11	DEC.	. 15 11 6	15 4 44

Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.	MO11011.	O Full Ecl.)	O Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
A.D. 1895.		d. h. m.	d. h. m.	A.D. 1898.		d. h. m.	d. h. m.
A.	JAN	13 23 50	13 23 53	D. Marah	JAN	10 15 0	10 9 51
	FEB	(12 12 34	12 19 0	d. h. m.	FEB	9 3 44	8 21 54
March. $d. h. m.$	0	27 6 56	27 6 20	8 16 13	MAR	10 16 28	10 10 46
8 22 46	MAR	14 1 18	14 12 29		APRIL	9 5 12	9 0 37
}	APRIL	12 14 2	13 3 18		MAY .	8 17 56	8 15 23
	MAY .	12 2 46	12 15 8		JUNE .	7 6 40	7 6 44
	JUNE .	10 15 30	11 0 26		0	122 1 2	21 23 43
	JULY.	10 4 14	10 8 6		JULY.	6 19 24	6 22 3
	Aug	8 16 58	8 15 14		Aug	5 8 8	5 12 46
	0	23 11 20	23 8 30		SEPT	3 20 52	4 2 27
	SEPT	7 5 42	6,22 55		Oct.	8 9 86	3 15 5 2 2 55
	Oct.	6 18 26	6 8 2		Nov	1 22 20	1
	Nov.	5 7 10	4 19 15		D 0	16 5 26	
	DEC	4 19 54	4 8 52		DEC. O	30 23 48	
1896.	JAN	8 8 89	3 0 51			.00 20 20	02 2 20
G.F.	FEB.	ſ 1 21 23	1 18 30	1899.	JAN	29 12 32	29 11 52
	0	16 15 45	16 22 30	C.	FEB	28 1 16	27 22 21
		(210 7	2 12 48	8 22 2	MAR.	29 14 1	29 8 59
8 4 85	MAR.	31 22 51	(1 6 15		APRIL	28 2 45	1 1
	APRIL	30 11 35	80 21 57		MAY .	. 27 15 29	1
1	MAY.	80 0 19	30 11 16		0	<b>∫11</b> 9 5	
	June .	28 13 3	28 22 12	H	June		- 1 1
	July.	28 1 47	28 7 21		July		ا منا
	0	<b>∫11 20 9</b>	11 9 30		A.vg.		1 1
1	Aug	126 14 31		11	SEPT.	1	
	SEPT	25 8 15		H	Ocr.	20 19 5	
i	Ocr	1		11	Nov.	5 14 1	
	Nov.	1		11	DEC.	. \\20 8 8	
	Dec	22 17 27	22 8 89	·	DEC.	.   120 0 0	. 20 20 22
1897.	JAN	21 6 11	L 20 22 83	1900.	JAN.	. 18 21 2	2 19 8 46
E.	FEB.	19 18 56		B.A.	FEB.	. 17 10	6 17 14 6
8 10 2		21 7 40	21 6 18	8 8 8	1 MAR.	•	0 17 28 28
	APRIL		4 19 22 59	2	APRI	1	
	MAY	1	8 19 14 50	)	May	. 14	18 15 17 24
	June .	. 17 21 59	2 18 5 2	3	0	180 18	الجديدات الأ
	JULY	. 17 10 8	1	11	JUNE		2 14 8 41
	Aug.			_ II	Jurz		
	SEPT.		4 14 15 4	11	Aug.		30 12 6 20 14 10 22 44
	Oct.	. 14 0 4		. 11	SEPT	1	1
	Nov.	1		I I	Oct.	9 4	
	DEC.	13	1	11	Nov.		
	0	126 20 8	38 27 2 4	٥	DEC.	0.11%	
l l	1	- 1	1	11	1	1	ومرجون والمتابيات

Mean Vernal Equinox.	Month,	Mean New Moon, (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon, (○ Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1901.		d. h. m.	d. h. m.	A.D. 1904.		d. h. m.	d. h. m.
G. March.	JAN	7 6 10	7 16 58	m.c. March.	JAN	<b>4</b> 21 20	4 18 13
d. h. m.	FEB	5 18 54	6 5 29	d. h. m.	FEB	3 10 4	3 13 27
8 9 39	MAR	7 7 38	7 15 54	8 3 6	MAR.	<b>3</b> 22 48	4 7 47
	APRIL	5 20 22	6 0 36		APRIL	2 11 32	2 23 55
	MAY .	5 9 6	5 8 17		MAY.	§ 2 0 16	2 13 11
	June.	3 21 50	3 15 51		TUAL .	(31 13 0	31 23 39
	July.	3 10 34	3 0 21		June.	30 1 44	30 8 3
	Aug	f 1 23 18	1 10 48		July.	29 14 28	29 15 26
	1100.	(31 12 2	30 23 58		Aug	28 3 12	27 22 53
	SEPT	30 0 46	29 15 57		SEPT	26 15 56	26 7 21
	0	§14 19 8	14 17 43		Oct	26 4 40	25 17 35
	Ост	29 13 30	29 10 4		Nov	24 17 24	24 6 1
	Nov	28 2 14	28 5 5		DEC	24 6 8	23 20 48
į	DEC	27 14 58	27 23 31				
1902.	JAN.	06 9 40	00 15 50	1905.	JAN	22 18 53	22 18 88
F.	FEB.	26 3 43	26 15 58	В.	0	(6 13 15	6 21 40
8 15 28	MAR.	24 16 27 26 5 11	25 5 48		FEB	21 7 37	21 7 25
0 10 20	1		26 16 40	8 8 55	MAR.	22 20 21	23 1 14
	0	9 23 33	9 20 59		APRIL	21 9 5	21 17 50
	APRIL May	24 6 39	25 1 19		MAY.	20 21 49	21 8 21
1	JUNE.	22 19 23	24 8 32 22 15 16		JUNE .	19 10 33	19 20 28
	JULY.	22 19 23			JULY.	18 23 17	19 6 33
	Aug.	20 20 51	21 22 41 20 7 50		0	( 2 17 39	268
	SEPT.	19 9 35	18 19 40		Aug	17 12 1	17 15 22
\$		(4 3 57	4 8 21	,	SEPT	16 0 45	15 28 58
	OCT.	18 22 19	18 10 35		Ocr	15 13 29	15 8 56
	Nov.	17 11 3	17 4 17		Nov	14 2 13	13 19 6
	DEC.	16 23 47	16 23 40		DEC	13 14 57	13 6 39
	2251 1	10 20 1	10 20 40				
1903.	JAN	15 12 32	15 19 6	1906.	JAN	(12 3 41	11 19 42
E	FEB	14 1 16	14 12 54	Δ.	0	26 22 3	27 10 20
8 21 17	MAR	(15 14 0	16 3 57		FEB	10 16 25	10 10 10
	0	30 8 22	30 2 40	8 14 44	MAR	12 5 9	12 1 48
	APRIL	14 2 44	14 15 54		APRIL	10 17 53	10 18 5
	MAY .	13 15 28	14 1 10		MAY .	10 6 87	10 10 16
	JUNE .	12 4 12	12 8 36		JUNE .	8 19 21	9 1 38
	JULY.	11 16 56	11 15 17	1	JULY.	(885	8 15 27
	A.ug		9 22 21		0	23 2 27	22 15 21
	SEPT	8 18 24	1		Aug	6 20 49	7 3 41
	0	23 12 46	23 17 50		SEPT	5 9 33	5 14 36
	Oct	8 7 8	1		Ocr	4 22 17	5 0 50
	Nov	6 19 52	1		Nov	3 11 1	3 11 2
	DEC	6 8 36	5 23 41		DEC	2 23 45	2 21 31
	<u> </u>	1					

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1907.		d. h. m.	d. h. m.	A.D. 1910.		d. h. m.	d. h. m.
Gr.		1 12 29	1 8 32	C. Morek	JAN	27 16 24	28 3 47
	JAN. O	36 6 51	16 16 1	March. $d. h. m.$	FEB	26 5 8	26 15 8
		(31 1 13	30 20 4	8 13 59	MAR	27 17 52	28 0 29
March.	FEB	•••			APRIL	26 6 36	26 8 25
d. h. m. 8 20 32	MAR	§ 1 13 58	1 8 16		0	<b>∫11</b> 0 58	<b>1</b> 1 <b>7 4</b> 6
		U31 2 42	30 21 19		MAY.	125 19 20	25 15 45
	APRIL	29 15 26	29 11 22		JUNE.	24 8 4	23 23 31
	MAY .	29 4 10	29 2 17		JULY.	23 20 48	23 8 50
	JUNE .	27 16 54	27 17 40		Aug	22 9 32	21 20 37
	0	$\int 12 \ 11 \ 16$	12 6 47		SEPT	20 22 16	20 11 16
	July.	127 5 38	27 8 51		Ост	20 11 0	20 4 34
	Aug	25 18 22	25 28 18		0	∫ 4 5 22	4 2 36
	SEPT	24 7 6	24 12 45		Nov	18 28 44	<b>1</b> 8 2 <b>3</b> 29
	Ост	23 19 50	24 1 14		DEC	18 12 28	18 18 32
	Nov	22 8 34	22 13 1				
	DEC	21 21 18	22 0 15	1911.	JAN	17 1 12	17 12 9
1908.	JAN	20 10 3	20 11 2	В.	FEB	15 13 56	16 8 17
F.E.	FEB.	18 22 47	18 21 26	8 19 48	MAR.	17 2 41	17 15 32
8 2 21	MAR.	19 11 31	19 7 39		APRIL	15 15 25	16 , 1 10
0 2 21	APRIL	18 0 15	17 18 15		MAY.	15 4 9	15 8 51
	MAY.	17 12 59	17 5 49		June .	13 16 58	18 15 87
Į.	JUNE .	16 1 43	15 18 54		JULY.	13 5 37	12 22 32
	JULY.	15 14 27	15 9 82		Aug	11 18 21	11 6 43
1	Aug.	14 8 11	14 1 19		SEPT	10 7 5	9 17 10
	SEPT.	12 15 55	12 17 85		Ocr	9 19 49	9 6 87
	Oct.	12 4 89	12 9 81		Nov	8 8 88	7 28 5
	Nov.	10 17 28	11 0 82		DEC	7 21 17	7 17 51
1	DEC.	10 6 7	10 14 15				
				1912.	JAN.	6 10 1	6 18 28
1909. D.	JAN	8 18 51	9 2 88	A.G.	FEB.	4 22 45	5 8 18
ŀ	FEB	7 7 85	7 18 26	8 1 97	MAR.	f 5 11 29	6 0 40
8 8 10	MAR.	8 20 19	8 28 4		0	20 5 51	20 0 40
	APRIL	7 9 8	7 7 51		APRIL	4 0 18	4 14 6
	MAY.	6 21 47	6 16 28		MAY.	8 12 57	4 0 84
	-0	21 16 9	22 8 49		JUNE .	2 1 41	2 8 44
	June.	5 10 81	5 1 51			( 1 14 25	1 15 89
	July .	4 23 15	4 12 54		JULY.	\81 8 9	80 22 29
	Aug	8 11 59	8 2 12	1	A.ug	29 15 58	29 6 14
	SEPT	2 0 43	1 17 46		0	(18 10 15	18 14 10
	Ocr	$\begin{cases} 1 & 18 & 27 \\ 21 & 0 & 11 \end{cases}$	1 11 8		SEPT	128 4 87	27 15 58
		181 2 11	81 4 57		Oor.	27 17 21	27 4 8
	O NT	{14 20 88			Nov	26 6 5	25 19 15
	Nov.	29 14 55	1	- []	DEC	25 18 49	25 12 49
	DEC	29 8 89	29 14 8				1

Mean	Month.	Mean New Moon,	True New	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Vernal Equinox.	Monen.	(O Full Ecl.)	Full Ecl.)	Equinox.	2007200	(O Full Ecl.)	O Full Ecl.)
A.D. 1913.		d. h. m.	d. h. m.	A.D. 1916.		d. h. m.	d. h. m.
F.	JAN	24 7 34	24 7 46	C.B.	0	7 4 22	7 10 52
	FEB	22 20 18	23 2 36	3.6 .3	JAN	21 22 44	21 18 39
March. d. h. m.	0	( 9 14 40	9 14 43	March. $d. h. m.$	FEB	20 11 28	20 6 16
8 7 25	Mar	24 9 2	24 19 50	8 0 52	MAR	21 0 12	20 18 33
	APRIL	22 21 46	23 10 31		APRIL	19 12 56	19 7 47
	MAY.	22 10 30	22 22 18		MAY .	19 1 40	18 22 5
	JUNE.	20 23 14	21 7 40		June .	17 14 24	17 18 12
	JULY.	20 11 58	20 15 32		0	r 2 8 46	2 7 9
	Aug.	19 0 42	18 22 58		JULY.	17 8 8	17 4 36
	0	(2194	2 15 22		Aug	15 15 52	15 19 89
	SEPT	17 13 26	17 7 0		SEPT	14 4 36	14 9 58
	Oct	17 2 10	16 16 25		Ocr	13 17 20	13 23 8
	Nov	15 14 54	15 3 47		Nov	12 6 4	12 11 80
	DEC	15 3 38	14 17 24		DEC	(11 18 48	11 23 9
					0	<b>126 13 10</b>	26 10 1
1914.	JAN	13 16 23	13 9 7	1917.	JAN	10 7 33	10 10 11
E.	FEB	(12 5 7	12 2 19	Α.	FEB	8 20 17	8 20 87
	0	26 23 29	27 7 3	8 6 41	MAR.	10 9 1	10 6 89
8 13 14	MAR.	13 17 51	13 20 3	0 0 11	APRIL	8 21 45	8 16 43
	APRIL	12 6 35	12 13 13		MAY .	8 10 29	8 8 27
	MAY .	11 19 19	12 <b>4</b> 46		JUNE .	6 23 18	6 15 82
	June .	10 8 3	10 18 7		0	21 17 85	22 0 6
1	JULY.	9 20 47	10 5 16		JULY .	6 11 57	6 5 17
1	Aug	r 8 9 31	8 14 48		Aug	5 0 41	4 20 87
	0	23 3 53	22 16 28		SEPT.	3 13 25	8 12 55
	SEPT	6 22 15	6 23 34		Ост.	8 2 9	8 5 28
	Oct	6 10 59	6 8 29		Nov.	1 14 58	1 21 18
	Nov	4 23 43	4 18 13			1 8 37	1 11 51
	DEC	4 12 27	4 5 6		DEC. C	15 21 59	15 12 9
						(30 16 21	81 1 0
1915.	JAN.	3 1 11	2 17 21	1010	7	29 5 5	29 12 88
<b>D</b> ,	FEB	1	1 6 56	1918. G.	JAN		1
8 19 3	Mar.	3 2 39	2 21 45	11	FEB	27 17 49	27 22 89
	APRIL	1 15 23	1 13 30	8 12 30	MAR.	29 6 88	29 7 84
	MAY	$\begin{cases} 1 & 4 & 7 \\ 30 & 16 & 51 \end{cases}$	1 5 36 30 21 22		MAY.	27 19 17 27 8 1	27 15 57 27 0 88
	JUNE	1	29 12 2		0	∫11 2 28	11 12 57
	JULY		29 1 14		JUNE.	25 20 45	25 10 86
	Aug.	Į.	1	1	JULY.	i i	24 22 39
	SEPT.		25 23 47		Aug.	1	28 13 10
	Oct.		l .		SEPT.		22 5 50
	Nov.	1			Oct.	21 23 41	21 28 46
	Dec.				Nov.		20 17 49
					DEC.	20 1 9	20 10 40
'				-11	1	1	1

Moan Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Menn Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1919. F.		d. h. m.	d. h. m.	A.D. 1922. B.		d. h. m.	d. h. m.
March.	JAN	18 13 54	19 1 32	March.	JAN	15 5 4	15 2 12
d. h. m.	Feb	17 2 38	17 13 59	d. h. m.	FEB	13 17 48	13 21 7
8 18 18	MAR	18 15 22	19 0 9	8 11 45	MAR	15 6 32	15 15 10
	APRIL	17 4 6	17 8 32	İ	APRIL	13 19 16	14 7 7
	Max .	16 16 50	16 15 52		May .	13 8 0	18 20 18
	June.	15 5 84	14 23 10		June.	11 20 44	12 6 50
	July.	14 18 18	14 7 31		JULY.	11 9 28	11 15 24
	Aug	13 7 2	12 17 57		Aug	9 22 12	9 23 4
	Sept	11 19 46	11 7 13		SEPT.	8 10 56	8 6 51
	Ocr	§11 8 30	10 23 23		Oct	7 23 40	7 15 39
	0	26 2 52	26 1 56		Nov	6 12 24	6 2 6
	Nov	9 21 14	9 17 48		DEC	6 1 8	5 14 37
	DEC	9 9 58	9 13 5				
1920.	Ψ	7 22 42	8 7 40	1923.	JAN	4 18 52	4 5 12
E.D.	Jan	6 11 26	7 0 10	Α.	FEB	(8 2 36	2 21 32
1	FEB.	1	' '		0	17 20 58	18 6 14
8 0 7	MAR			8 17 34	MAR	4 15 20	4 14 55
1	APRIL	5 12 54	1		APRIL	8 4 4	3 8 18
	0	20 7 16	20 4 0		MAY.	2 16 48	3 0 38
	MAY.	5 1 88	5 8 59		<b>-</b>	(1 5 82	1 15 6
	JUNE .	8 14 22	3 16 1		June.	80 18 16	(1 8 24
	July.	8 8 6	2 22 41		JULY .	80 7 0	80 18 49
	Aug	1 15 50	1 6 7		0	(14 1 22	18 18 1
	_	(81 4 84	80 15 28		Aug	28 19 44	28 28 4
	SEPT	29 17 18	29 8 20		SEPT	27 8 28	27 8 8
	0	(14 11 40	14 16 32		Ocr. ,	26 21 12	26 17 29
	Oct	29 6 2	28 18 25		Nov.	25 9 56	25 8 54
	Nov.	27 18 46	27 12 12		DEC	24 22 40	24 15 27
	DEC	27 7 80	27 7 87	li			
1921.	JAN	25 20 14	26 2 58	1924.	JAN.	28 11 24	28 4 14
0.	177	24 8 59	24 20 40	G.F.	1	7 5 46	
8 5 56	MAR	25 21 48	26 11 85		FEB.	22 0 8	1
0 000		(9 16 5	9 10 15	7 28 28	MAR.	22 12 58	
	APRIL	24 10 27	24 28 24		APRIL	21 1 87	
	MAY.	28 28 11	24 8 34	H	MAY .	20 14 21	
	JUNE.	22 11 55	22 15 59		June .	19 8 5	
	JULY.	22 11 33	21 22 47		JULY .	18 15 49	
		20 18 28	20 6 8			(2 10 11	
	Aug	19 2 7	18 14 45		Aug.	17 4 88	
	SEPT	( 3 20 29	4 1 26		SEPT.	15 17 17	15 22 22
	0	18 14 51	1		1 -	15 17 17	15 9 10
	Oor	1	1		Ocr	18 18 45	18 19 46
	Nov.		16 15 28 16 7 52		Nov.	18 7 29	18 6 80
	DEC	16 16 19	16 7 52		DEC	10 ( 58	19 0 90
	1	1	1	11	l	1	ŀ.,

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.) (	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.) (	True New Moon. O Full Ec'.)
A.D. 1925. E.	Jan	d. h. m.	d. h. m. 11 17 27	A.D. 1928. B.A.	Jan	d. h. m. 9 11 24	d. h. m. 9 22 38
	O AN	26 14 36	27 0 3	March.	FEB	8 0 8	8 12 18
March.		10 8 58	10 4 39	d. h. m.		8 12 52	8 23 29
$egin{array}{cccccccccccccccccccccccccccccccccccc$	FEB	11 21 42	11 16 18	7 22 38	MAR.	7 1 36	7 8 30
0 0 11	MAR	1			APRIL	6 14 20	6 16 6
	APRIL	10 10 26			May .	21 8 42	21 14 23
	MAY.	9 23 10	9 18 14		O		4 23 11
	June.	8 11 54	8 8 50		June.	5 3 4	4 6 48
	JULY.	8 0 38	8 0 8		JULY.	4 15 48 3 4 32	2 16 3
1	0	22 19 0	22 14 17		Aug		
	Aug	6 13 22	6 15 34		SEPT	1 17 16	$\begin{cases} 1 & 352 \\ 301841 \end{cases}$
	SEPT	5 2 6	5 6 30		Ocr	$\begin{bmatrix} 1 & 6 & 0 \\ 20 & 18 & 44 \end{bmatrix}$	`
1	Oct.	4 14 50	4 20 33			(30 18 44	30 12 13
	Nov.	3 3 34	3 9 38		0	14 13 6	14 11 24 29 7 23
	DEC	2 16 18	2 21 49		Nov.	29 7 28	
		(152	1 0 10		DEC	28 20 12	29 2 36
1926.	JAN	$\begin{cases} 1 & 5 & 2 \\ 30 & 17 & 46 \end{cases}$	1 9 12 30 19 51				
D.	Tran	1		1929.	JAN	27 8 56	27 20 19
	FEB	(1 6 30	1 5 53	G.	FEB	25 21 40	26 11 24
8 11 0	MAR.	30 19 14	30 15 36	8 4 27	MAR	27 10 24	27 23 28
İ	APRIL	29 7 58	29 1 39		APRIL	25 23 8	26 8 52
	MAY.	1	28 12 44		MAY .	25 11 52	25 16 28
	June .	_	27 1 30		June .	24 0 36	23 23 3
	JULY.		26 16 5		JULY.	23 13 20	23 5 59
	Aug.	1	25 8 5		Aug	22 2 4	21 14 16
	SEPT.		24 0 48		SEPT	20 14 48	20 0 52
	Oct.	23 12 22	23 17 19		Ocr	20 3 32	19 14 27
	Nov.		22 8 52		Nov.	18 16 16	18 7 1
	DEC.	04 40 40	21 22 57		DEC	18 5 0	18 1 48
1927.	Jan.	. 20 2 35	20 11 22	1930.	JAN	16 17 44	16 21 22
c.	FEB.	. 18 15 19	18 22 5	F.	FEB	15 6 29	15 16 0
8 16 49	MAR.	. 20 4 3	20 7 21	8 10 16	MAR	£16 19 13	17 8 18
	APRIL	. 18 16 47	18 15 41		0	(31 13 35	31 8 29
	MAY	.   18 5 31	17 23 54		APRIL	15 7 57	15 21 36
	0	( 1 23 58	2 10 44		MAY .	14 20 41	15 7 57
	JUNE	. (16 18 18	16 8 57		June.	13 9 25	13 16 7
	JULY	. 16 6 59	15 19 47		JULY .	12 22 9	12 23 8
	Aug.	. 14 19 48	14 9 3		Aug	1	11 6 8
	SEPT.	. 13 8 27	13 0 48		SEPT.	1.7	9 14 8
	Ост.	. 12 21 11	12 18 47		0	24 17 59	1
	Nov.	. 11 9 5	<b>1</b> 1 12 48		Oct.	1	9 0 1
	0	26 4 17	7 25 19 54		Nov.	1	7 12 26
1	DEC.	. 10 22 39	11 6 34		DEC.	. 7 13 49	7 3 31
	1		1		<u> </u>		

			ERUSALEM (	CIVIL TIME			
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1931.		d. h. m.	d. h. m.	A.D.			
R.	JAN	6 2 34	5 20 56	1933. B.	_	d. h. m.	d. h. m.
March.	FEB	4 15 18	4 15 81	March.	JAN	13 8 55	13 2 3
8 16 4	MAR	6 4 2	6 10 4	d. h. m.	FEB	11 21 39	11 15 13
	0	20 22 24	20 22 56	8 3 42	MAR.	13 10 23	13 5 26
	APRIL	4 16 46	5 8 8		APRIL	11 23 7	11 20 36
	MAY .	4 5 30	4 17 35		MAY.	11 11 51	11 12 17
	JUNE .	2 18 14	3 5 23		June.	10 0 35	10 3 51
		(2 6 58	2 14 55		JULY.	9 18 19	9 18 39
	July.	81 19 42	81 28 2		Acug	8 2 3	8 8 13
	Avg	80 8 26	30 6 44		SEPT	6 14 47	6 20 32
	0	(14 2 48	13 22 23		Oct	6 3 31	6 7 54
	SEPT	28 21 10	28 15 12		Nov	4 16 15	4 18 47
	Ocr	28 9 54	28 0 54		DEC	4 4 59	4 5 34
	Nov	26 22 38	26 12 26				
	DEC	26 11 22	26 1 57	1934.	JAN	§ 2 17 43	2 16 25
Ť.				Α.	0	17 12 5	17 18 51
1932.	JAN.	25 0 6	24 17 17		FEB	1 6 27	1 3 21
D.C.	FEB.	28 12 50		8 9 31	MAR	2 19 11	2 14 31
l	0	(9 7 12	28 10 0 9 15 24		APRIL	ſ 1 7 55	1 2 12
7 21 58	MAR.	24 1 31				₹30 20 39	30 14 51
- == 00	APRIL	22 14 18	24 8 16 22 20 4		MAY.	30 9 23	30 4 42
	MAY.	22 8 2	22 20 4		JUNE.	28 22 7	28 19 37
	JUNE .	20 15 46			_ 0	∫13 16 29	13 14 37
	JULY.	20 13 46	21 0 55 20 12 21		JULY.	(28 10 51	28 11 9
	Aug.	18 17 14	18 22 18		Aug	26 23 35	27 2 36
	0	(2 11 86	1 28 84		SEPT	25 12 19	25 17 25
	SEPT.	17 5 58	17 7 88				
	Oct	16 18 42	16 17 4			f	
	Nov.	15 7 26	15 2 58				
	DEC.	14 20 10	14 18 58				
			** in 00	ŀ		<u> </u>	
i							1



## TABLE

OF

# VERNAL EQUINOXES AND NEW MOONS

IN

"NEW STYLE"

From the English Reformation of the Calendar A.D. 1752 to A.D. 1934.

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1752.		d. h. m.	d. h. m.	A.D. 1755.		d. h. m.	d. h. m.
	JAN			E.	JAN	13 0 12	12 15 22
	FEB			March. $d$ . $h$ . $m$ .	FEB	11 12 56	11 7 18
	MAR	1		21 0 50	MAR.	(13 1 40	13 0 14
	APRIL	1			0	27 20 2	28 3 7
	MAY.				APRIL	11 14 24	11 17 28
	JUNE.				MAY .	11 3 8	11 9 58
	July.				June.	9 15 52	10 0 47
	Aug.		ļ		JULY.	9 4 86	9 13 34
	SEPT.				Aug.	7 17 20	8 0 29
	Oct.	8 3 39	7 18 38		SEPT	(664	6 10 6
	Nov.	6 16 28	6 4 10		0	21 0 26	20 18 9
	DEC.	6 5 7	5 21 33		Ост	5 18 48	5 19 18
	<b>D</b> 20				Nov.	4 7 82	4 4 46
1753. G.	-	4 47 54	4 10 44		DEC	8 20 16	8 15 5
March.	JAN	4 17 51	4 16 44				
d. h. m.	FEB	3 6 85	8 12 11	1750	T	(2 9 0	2 2 26
20 13 13	MAR.	4 19 19	5 6 14	1756.	JAN	81 21 45	81 14 52
	APRIL	3 8 8	3 21 89	1 2.0.	FEB		
	0	18 2 25	17 20 46	00 000	3/5	( 1 10 29	1 4 23
İ	MAY .	2 20 47	8 10 0	<b>2</b> 0 6 <b>3</b> 9	MAR	80 28 18	80 18 56
	June .	1 9 81	1 19 85		APRIL	29 11 57	29 10 20
		(80 22 15	1 8 17		MAY .	29 0 41	29 2 6
	July.	80 10 59	<b>(80 10 10</b>	}	JUNE .	27 18 25	27 17 30
	Aug	28 28 48	28 17 22	1	JULY.	27 2 9	27 7 56
	SEPT	27 12 27	27 1 51		Aug	25 14 58	25 21 5
	0	12 6 49	12 11 15		SEPT	24 8 87	24 9 1
	Ocr	27 1 11	26 12 27	,	Ocr	28 16 21	28 20 9
	Nov	25 18 55	25 1 40	į	Nov	22 5 5	22 6 58
	DEC	25 2 89	24 17 84		DEC.	21 17 49	21 17 45
1754.	JAN	29 15 24	23 11 80	1757.	JAN	20 6 84	
F.	FEB	22 4 8	22 6 16	В.	_ 0	4 0 56	
20 19 2	MAR	28 16 52	24 0 26		FEB	18 19 18	1
	0	5 7 11 14	7 10 84	20 12 28	MAR.	20 8 2	
	APRIL	22 5 86	22 16 45	II	APRIL	18 20 46	
	MAY .	21 18 20	22 6 27		MAY .	18 9 80	
	June .	20 7 4	20 17 28		June 4	16 22 14	
	JULY .	19 19 48	20 2 27		JULY .	16 10 58	1
	Aug	18 8 82	18 10 20		0	(81 5 20	
	SEPT	16 21 16	16 18 12	]	A.ve.	14 28 42	
	0	§ 1 15 88	1 12 89		SEPT.	18 12 26	منا میا
	Ocr	16 10 0	16 2 54		Oor.	18 1 10	1
	Nov	14 22 44	14 18 7		Nov.	11 18 54	1 1 1 1
	DEC	14 11 28	14 1 15	1	DEC.	11 2 88	11 8 47
					}		<u> </u>

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	Frue New	Mean Vernal	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
Equinox.			J F UII MOI.	Equinox.			(O F dii E01.)
A.D. 1758.		d. h. m.	d. h. m.	A.D. 1761.		d. h. m.	d. h. m.
Δ.	JAN	9 15 22	9 20 24	March.	JAN	6 6 32	6 11 54
March.	0		24 8 49	d. h. m.	FEB	4 19 16	5 6 2
d. h. m.	FEB	8 4 6	8 7 8	20 11 43	MAR	6 8 0	6 21 38
20 18 17	MAR	9 16 50	9 17 5		APRIL	4 20 44	5 10 13
	APRIL	8 5 34	8 2 37		MAY .	<b>§ 4</b> 9 28	4 19 59
1	MAY.	7 18 18	7 12 18		0	(19 3 50	19 0 23
	June .	6 7 2	5 22 57		June .	2 22 12	3 3 43
	July .	5 19 46	5 11 12		JULY.	$\int 2 10 56$	2 10 26
	0	20 14 8	20 18 42		JULI.	(31 23 40	81 17 15,
	Aug	4 8 30	4 1 25		Aug	30 12 24	30 1 14
,	SEPT	2 21 14	2 17 18		SEPT	29 1 8	28 11 25
	Ост.	§ 2 ·9 58	2 10 8		Oct	28 13 52	28 0 29
1	001.	31 22 42	1 3 0		0	$\int 12 \ 8 \ 14$	12 13 24
	Nov	30 11 26	30 19 2		Nov	27 2 36	26 16 32
	DEC	80 0 10	30 9 35		DEC	26 15 20	26 10 59
				1			
	_ 0	$\int 13 \ 18 \ 32$	13 10 22	1762.	JAN	25 4 5	25 6 29
1759.	JAN	28 12 55	28 22 22	c.	FEB	23 16 49	24 1 21
G.	FEB	27 1 39	<b>27</b> 9 18	20 17 32	MAR.	25 5 33	25 18 6
21 0 6	MAR	1 1	28 18 41	1 20 21 02	APRIL	23 18 17	24 7 55
	APRIL	1	27 2 57	II.	0	( 8 12 39	8 6 5
	MAY .		26 10 56		MAY .	23 7 1	23 18 46
	June .		24 19 37		JUNE .	21 19 45	22 3 17
*	JULY		24 5 57	li .	JULY.	21 8 29	21 10 29
	Aug.	1	22 18 43	₩ .	Aug	19 21 13	19 17 30
	SEPT.		21 10 6	+	SEPT	18 9 57	18 1 21
	Oct.	. 21 7 31	21 3 35	N.	Oct	17 22 41	17 10 56
	Nov.		19 22 5			(117 3	1 22 50
1	DEC.	. 19 8 59	19 16 14	1	Nov	16 11 25	15 22 54
1760.	JAN.	. 17 21 44	18 8 49	11	DEC	16 0 9	15 13 30
* Fat.	FEB.		16 22 59	ll.			1
20 5 53	1		16 22 59	11	JAN.	14 12 54	14 6 25
40 9 90	APRU		15 19 48	11	FEB.		
	MAY	_	15 19 48	' [[			1
1	0	29 19 2	29 23 41	11	APRIL		
	JUNE	1 -	13 10 28	11	MAY .		1
	JULY		12 17 49	11	JUNE		
	Aug.	1	11 2 39	11	JULY		1
	· SEPT.			11	Aug.		l l
	Ост.	9 16 20		11	SEPT.		
	Nov.	1		- 11	Oct.	7 7 30	
	0	22 23 26	l	11	37	5 20 14	
:	DEC.	1 -	1	11	DEC.	5 8 58	
1			1 . 10 5	~			
L			.1	11			1

			11			1	
Mean Vernal Equinex.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 1764.		d. h. m.	d. h. m.	A.D. 1767.		d. h. m.	d. h. m.
A.G.	JAN	3 21 42	3 12 22	D.	JAN	30 1 36	30 6 19
d. h. m.	FEB	2 10 26	2 3 14	March. $d. h. m.$	FEB	28 14 20	28 16 30
20 5 10	MAR	( 2 23 10	2 19 31	20 22 36	MAR	30 3 4	30 1 58
	0	17 17 82	18 2 38		APRIL	28 15 48	28 11 13
	APRIL	1 11 54	1 12 30		MAY .	28 4 32	27 21 2
		(1 0 38	1 5 17		June .	26 17 16	26 8 14
	MAY .	30 13 22	30 20 57		JULY.	26 6 0	25 21 24
	June .	29 2 6	29 10 50		Aug	24 18 44	24 12 32
	July.	28 14 50	28 22 45		SEPT	23 7.28	23 5 10
	Aug	27 3 34	27 9 7		Oct	22 20 12	22 22 24
	0	(10 21 56	10 9 19		Nov	21 8 56	21 15 18
	SEPT.	125 16 18	25 18 41		DEC	20 21 40	21 6 46
	Oct	25 5 2	25 4 11			1	
	Nov.	23 17 46	28 14 14		0	§ 4 16 2	4 6 36
	DEC	23 6 80	23 1 5	1768.	JAN	19 10 25	19 20 85
1765.	JAN	21 19 15	21 12 54	С.В.	FEB	17 23 9	18 8 28
1705. F.		20 7 59	20 1 38	20 4 25	MAR	18 11 53	18 18 21
	FEB	7 2 21	7 15 52		APRIL	17 0 87	17 2 54
00 10 50	MAR	21 20 43	21 15 24		MAY.	16 13 21	16 10 44
20 10 59	APRIL	20 9 27	20 6 8		JUNE.	15 2 5	14 18 45
	MAY.	19 22 11	19 21 33		0	129 20 27	30 6 11
1	JUNE .	18 10 55	18 13 6		JULY.	14 14 49	14 4 2
	JULY .	17 23 39	18 4 10		Aug	13 3 33	12 15 29
	Aug.	(16 12 28	16 18 9		SEPT	11 16 17	11 5 87
	0	81 6 45	80 18 2		Ocr	11 5 1	10 22 18
	SEPT.	15 1 7	15 6 56		Nov.	9 17 45	9 16 88
	Oct	14 13 51	14 18 43	1	DEC	9 6 29	9 11 19
1	Nov.	18 2 85	13 5 58		0	124 0 51	28 17 14
	DEC.	12 15 19	12 16 49	1700	Jan.	7 19 18	8 4 56
			11 8 40	1769.	FEB.	6 7 58	6 20 25
1766.	JAN	11 4 8	9 14 80	20 10 14		7 20 42	8 9 18
F.	FEB	$\begin{cases} 9 & 16 & 48 \\ 24 & 11 & 10 \end{cases}$	24 22 12	20 10 14	APRIL	6 9 26	6 19 27
00 40 40	0		11 1 28		MAY	5 22 10	6 4 10
20 16 48	MAR.	11 5 82	9 12 41		JUNE		4 10 45
	APRIL	9 18 16	9 0 51		O	19 5 16	19 10 88
	MAY .	9 7 0 7 19 44	7 14 15	H	July		8 17 48
1	JUNE .		7 4 55		AUG.	2 12 22	( 1 28 89
	July .				1200	(116	1 04 44 BU
	Aug	$\left\{\begin{smallmatrix} 5 & 21 & 12 \\ 20 & 15 & 84 \end{smallmatrix}\right.$			SEPT.		
	0		4 12 6	11	Oor.	80 2 84	29 16 28
	SEPT.	8 22 40		1	Nov.	28 15 18	28 10 44
	Oct.	2 11 24			0	(18 9 40	
	Nov	(2 0 8			DEC.	$\begin{cases} 28 & 4 & 2 \end{cases}$	
	DEC	$\begin{cases} 2 & 0 & 8 \\ 81 & 12 & 52 \end{cases}$					
4	1	(OT 17, 97	OT TO TO	11	١		1

Nov 25 6 27 24 21 48 Nov 22 21 87 28 4 89								
1770.	Vernal	Month.	Moon.	Moon.	Vernal	Month.	Moon.	Moon.
March   April   Apri			d. h. m.	d. h. m.			d. h. m.	d. h. m.
March. d. h. m. 20 16 3		T	96 16 46	97 1 15		JAN.	23 7 56	22 23 49
20 16 8 Mar. 26 18 14 27 8 13 APRIL 25 6 58 25 19 15 May 24 19 42 25 8 48 June 22 17 90 AUG. 19 12 22 17 90 AUG. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 0 6 17 12 12 Dec. 17 12 50 17 5 35 Nov. 18 14 14 19 59 Mar. 16 8 3 16 18 50 APRIL JULY 12 5 59 12 10 40 AUG. 10 18 43 10 17 45 Sept. 9 7 27 9 1 12 Oct. 18 8 9 57 Oct. 18 8 23 18 56 Nov. 28 28 18 38 28 18 28 Dec. 6 21 40 6 10 7 Use 10 12 17 18 57 17 18 32 Mar. 2 13 19 2 23 45 June 18 3 0 3 3 1 18 22 June 18 3 0 3 3 1 18 0 0 June 19 10 17 19 10 10 17 19 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 17 11 10 10 10 10 10 10 10 10 10 10 10 10							21 20 40	21 15 13
APRIL APRIL 25 6 58 25 19 15			1					23 7 40
APRIL   24 19 42 25 3 48   APRIL   22 10 22 17 30   AUG.   22 21 10 22 17 30   AUG.   21 954 21 0 50   Sept.   19 22 38 19 9 58   OCT.   19 11 22 18 21 32   Nov.   18 0 6 17 12 12   DEC.   17 12 50   17 5 35   Nov.   18 0 6 17 12 12   DEC.   17 12 50   17 5 35   Nov.   14 15 16   14 18 29   DEC.   14 14 19   14 19 59   APRIL   AUG.   18 14 18 18 29   DEC.   14 14 19   14 19 59   AUG.   12 17 15   18 2 54   June   12 5 59   12 10 40   AUG.   18 12 12 28   APRIL   AUG.   18 18 12 12 28   APRIL   AUG.   18 18   AUG.   18 18   AUG.   AUG	20 16 3			1	20 9 29			
MAY   24   19 42   25   36   36   37   38   36   38   36   36   38   36   38   36   38   36   38   38			1	11			ו נו	
JULY . 22 21 10 22 17 30  Aug 21 954 21 0 50  Sept 19 22 38 19 9 58  Oct 19 11 22 18 21 32  Nov 18 0 6 17 12 12  Dec 17 12 50 17 5 35  1771. Jan 16 1 85 16 0 42  Feb 14 14 19 14 19 59  Mar 16 8 3 16 18 50  April (14 15 47 15 5 6)  Q2 10 9 29 4 19  May . 14 4 31 14 17 20  June . 12 17 15 13 2 54  June . 12 17 15 13 2 54  June . 12 17 15 13 2 54  June . 12 17 15 18 2 54  June . 12 17 15 18 2 54  June . 12 17 15 18 2 54  Dec (8 20 11 8 9 57)  Oct (8 20 11 8 9 57)  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 19 28  A.  Feb 3 28 8 20 22 37  A.  Feb 3 28 8 39 15 17 19  A.  Feb 3 28 8 30 30  Cot (8 11 19 10 10 17 11  June . 20 8 25 28 30  Act (11 18 8 3)  Act (21 11 19 54)  Act (21 11 19 54)  Act (22 1 10 00 11 10 17 11  June . (22 1 10 00 11 10 17 11  June . (22 1 10 00 11 10 17 11  June . (22 1 10 00 11 10 17 11								
Aug.   21   954   21   050   5   5   5   5   5   5   5   5				(1		_	t	
Sept.   19 22 38   19 9 53   Oct.   19 11 22   18 21 32   Nov.   18 0 6   17 12 12   Dec.   17 12 50   17 5 35   Oct.   16 1 3 4   16 17 51   16 20 28   Oct.   17 12 50   17 5 35   Oct.   16 1 3 48   16 13 48   16 12 51   Oct.   16 1 3 48   16 12 51   Oct.   16 1 3 48   Oct.   Oct.   16 2 32   Oct.   16 2 32   Oct.   Oct		JULY.	1	!			200	
Oct. 19 11 22 18 21 32 2		Aug	1					
Nov 18 0 6 17 12 12   Oct 17 12 50 17 5 35   Solution   Dec 17 12 50 17 5 35   Oct 18 10 6 17 12 12   Oct 17 12 50 17 5 35   Oct 14 15 16 14 13 29   Dec 14 14 19 14 19 59   Dec 14 4 0 14 0 1   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 14 15 16   Oct 15 15   Oc		SEPT	19 22 38	19 9 53		-		
1771.   Dec.   17 12 50   17 5 35   16 0 42   14 15 16 14 18 29   Dec.   14 14 19 14 19 59   Dec.   14 14 0 1 1   14 18 29   Dec.   14 14 0 1 1   14 18 29   Dec.   14 14 0 1 1   14 18 29   Dec.   14 14 0 1 1   14 18 29   Dec.   14 15 16 14 18 29   Dec.   14 15 16 14 18 29   Dec.   14 15 16 14 18 29   Dec.   14 15 16 14 18 29   Dec.   14 15 16 14 18 29   Dec.   14 15 16 14 18 29   Dec.   14 15 16 14 18 29   Dec.   14 15 16 14 18 29   Dec.   14 15 16 14 18 29   Dec.   15 18   Dec.	1	Ост	19 11 22	18 21 32		SEPT	1	
1771.	Į į	Nov	18 0 6	17 12 12		0	12	
1771. Feb. 14 14 19 14 19 59  20 21 52 MAR. 16 8 8 16 13 50  APRIL   14 15 47   15 5 6 6   29 10 9   29 4 19    MAY		DEC	17 12 50	17 5 35		Ocr	16 2 32	
1771.						Nov	14 15 16	14 13 29
F.   Feb.   14 14 19   14 19 59   1774.   Jan.   12 16 45   12 11 19   14 15 47   15 5 6   29 10 9 29 4 19   May   14 4 31   14 17 20   June   12 17 15   18 2 54   Juny   12 5 59   12 10 40   Aug.   10 18 43   23 18 56   Nov.   7 8 56 6 20 48   Dec.   6 21 40   6 10 7   7 9 58   7 14 41   7 15 16 51   Nov.   4 0 5 4 4 28   Dec.   6 21 40   6 10 7   17 18 57   17 18 32   May   2 13 19   2 23 45   Juny   30 3 31   80 9 45   Aug.   28 16 15 28 18 0   Sept.   27 4 59   27 2 15   Oct.   22 6 17 43   26 11 19   Nov.   22 6 6 27 24 21 48   Nov.   22 21 37 28 4 39	11	T	16 1 95	16 0 42		DEC	14 4 0	14 0 1
20 21 52	1		1 1					
April		1	1		1774	TAN	12 16 45	12 11 19
April   14 15 47   15 5 6   29 10 9   29 4 19   14 4 31   14 17 20   12 17 15   18 2 54   11 6 57   11 2 20   10 18 43   10 17 45   10 18 43   10 18 43   10 17 45   10 18 43   10 18 43   10 18 43   10 18 43   10 18 43   10 18 43   10 18 44   10 17 11   10 17 11   10 18 41   10 17 11	20 21 52	ł .				i	1	
MAY . 14 4 81 14 17 20 JUNE . 12 17 15 18 2 54 JULY . 12 5 59 12 10 40 AUG 10 18 43 10 17 45 Sept 9 7 27 9 1 12 Oct 8 20 11 8 9 57 O 23 14 38 23 18 56 Nov 7 8 56 6 20 48 Dec 6 21 40 6 10 7  1772.			1.7					
June. 12 17 15 18 2 54  Juny. 12 5 59 12 10 40  Aug. 10 18 43 10 17 45  Sept. 9 7 27 9 1 12  Oct. {8 20 11 8 9 57  O {23 14 38 23 18 56  Nov. 7 8 56 6 20 48  Dec. 6 21 40 6 10 7  1772. E.D. Feb. 3 28 8 3 19 28  April {3 0 35 3 7 39} O {17 18 57 17 18 82}  May. 10 19 41 10 17 11  June. 9 8 25 9 8 87  July. 8 21 9 8 23 59  Aug. 7 9 58 7 14 41  Sept. 5 22 87 6 4 18  Oct. 5 11 21 5 16 51  Nov. 4 0 5 4 4 28  Dec. 3 12 49 8 15 46  1775. A.  Feb. 0 15 8 89 15 17 19  April {3 0 35 3 7 39} O {17 18 57 17 18 82}  May. 2 13 19 2 28 45  June. {3 0 3 3 1 80 9 45}  Aug. 28 16 15 28 18 0  Sept. 27 4 59 27 2 15 O {11 28 21 11 19 54} Oct. 126 17 48 26 11 19  Nov. 25 6 27 24 21 48  Nov. 22 18 7 28 4 39			1	1	20 15 16	1		
July 12 5 59 12 10 40 Aug. 10 18 43 10 17 45 Sept. 9 7 27 9 1 12 Oct. 8 20 11 8 9 57 O 23 14 33 23 18 56 Nov. 7 8 56 6 20 48 Dec. 6 21 40 6 10 7  1772. E.D. Feb. 3 28 8 3 19 28 April 3 0 85 3 7 39 O 17 18 57 17 18 82 May 2 13 19 2 23 45 June 8 21 9 8 23 59  Mar. 2 13 19 2 23 45 June 8 21 9 8 23 59  April 3 0 85 3 7 39 O 17 18 57 17 18 82 May 2 13 19 2 23 45 June 8 21 9 8 23 59  April 3 0 85 3 7 89 O 17 18 57 17 18 82 June 8 21 9 8 23 59  April 3 0 85 3 7 89 O 17 18 57 17 18 82 June 8 21 9 8 23 59  April 3 0 85 3 7 89 O 17 18 57 17 18 82 June 8 21 9 8 23 59  Aug. 2 8 16 15 28 18 0 Sept. 27 4 59 27 2 15 O 11 28 21 11 19 54 Oct. 126 17 43 26 11 19 Nov. 2 25 6 27 24 21 48 Nov. 2 21 8 58 24 14 38 Nov. 2 22 18 7 28 4 39								
Aug 10 18 48 10 17 45 Sept 9 7 27 9 1 12 Oct { 8 20 11 8 9 57 O 28 14 38 23 18 56 Nov 7 8 56 6 20 48 Dec 6 21 40 6 10 7  1772.	1			1		i	1	
Nov.   10 20 1 1 2   20 1 1 2   20 21 7   3 1 4 2   20 21 37   20 31   20 21 37   20 2		JULY.		1				- "
Oct. \ \{ 8 20 11 \ 8 9 57 \\ \cdot \} \\ \text{Oct.} \ \ \{ 28 14 38 \ 23 18 56 \\ \text{Nov.} \ \ \} \\ \text{7 8 56 6 6 20 48 } \\ \text{Dec.} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Aug		i			1	1
O \ \{28 14 38 \ 28 18 56 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		SEPT.	9 7 27	9 1 12		Aug	1	1
Nov 7 8 56 6 20 48 Dec 6 21 40 6 10 7  1772.  E.D. Feb 3 23 8 3 19 28 20 3 41 Mar 4 11 52 4 13 50 April (3 0 35 3 7 39) O (17 18 57 17 18 32 May . 2 13 19 2 23 45 June . (30 14 47) July . 30 3 31 (80 9 45) Aug 28 16 15 28 18 0 Sept 27 4 59 27 2 15 O (11 23 21 11 19 54 Oct (26 17 43 26 11 19) Nov 25 6 27 24 21 48  Nov 4 0 5 4 4 88 Dec 3 12 49 8 15 46  Nov 2 18 18 0 5 8 15 46  Nov 2 18 18 0 5 8 15 46  Nov 2 18 18 0 5 8 15 46  Nov 2 18 18 0 5 8 15 46  Nov 2 2 18 18 0 5 8 15 46  Nov 2 2 18 18 0 5 8 15 46  Nov 2 2 18 8 15 46  Nov 2 2 18 8 15 46  Nov 2 2 18 8 15 46  Nov 2 2 18 8 15 46  Nov 2 2 2 18 7 28 4 89	l	Ocr.	.   8 20 11	8 9 57		SEPT	1 -	1
Dec 6 21 40 6 10 7  1772. Jan 5 10 24 5 1 51		0	123 14 33	23 18 56		Ocr	5 11 21	
1772. Jan 5 10 24 5 1 51   20 3 41 Mar 4 11 52 4 13 50   APRIL		Nov.	. 7856	6 20 48		Nov	4 0 5	1
E.D. FEB 3 28 8 3 19 28 A. 20 8 41 MAR 4 11 52 4 13 50 APRIL		DEC.	6 21 40	6 10 7		DEC	8 12 49	8 15 46
20 3 41 MAR   4 11 52   4 13 50   20 21 7   15 8 39   15 17 19   15 8 10 8	1772.	Jan.	5 10 24	5 1 51	4775	T	2 1 88	2 2 45
20   3   41   Mar.   4   11   52   4   13   50   3   7   39   0   17   18   57   17   18   32   Mar.   2   13   19   2   23   45   Mar.   2   13   19   2   23   45   Mar.   2   13   19   2   23   45   Mar.   2   17   18   32   Mar.   2   17   18   32   Mar.   2   17   18   22   Mar.   2   17   18   29   10   47   June   28   5   57   28   0   41   July   27   18   41   27   15   49   49   49   49   49   49   49   4	E.D.	FEB.	. 3 23 8	3 19 28		JAM	131 14 17	81 18 80
MAY. 2 13 19 2 23 45  MAY. 2 13 19 2 23 45  June. 1 2 3 1 18 22 30 14 47  July. 30 3 31 80 9 45  Aug. 28 16 15 28 18 0  Sept. 27 4 59 27 2 15  O	20 3 41	MAR.	. 4 11 52	4 13 50		FEB. C	15 8 39	15 17 19
MAY . 2 13 19 2 23 45  JUNE . \{ 1 2 3 1 18 22 \\ 30 14 47 \\ JULY . 30 3 31 \\ 80 9 45 \\ AUG 28 16 15 28 18 0 \\ Sept 27 4 59 27 2 15 \\ OCT \{ 26 17 43 26 11 19 \\ Nov 25 6 27 24 21 48 \end{array} \]  \[ \begin{array}{c ccccccccccccccccccccccccccccccccccc		APRII	.   6 3 0 35	3 7 39	20 21 7	M -	2 3 1	2 0 8
MAY . 2 13 19 2 28 45  June . {1 2 3 1 18 22} 30 14 47 July . 30 3 81 80 9 45  Aug 28 16 15 28 18 0 Sept 27 4 59 27 2 15 Oct (26 17 48 26 11 19) Nov 25 6 27 24 21 48  APRIL   30 4 29 29 22 17  MAY . 29 17 13 29 10 47  June . 28 5 57 28 0 41  July . 27 18 41 27 15 49  Aug (26 7 25 26 7 88  Sept 24 20 9 24 28 26  Oct (26 17 48 26 11 19) Nov 25 6 27 24 21 48  Nov 22 21 87 28 4 89		0	17 18 57	17 18 32	1	IVLAR	81 15 45	81 10 54
June . \begin{pmatrix} 1 & 2 & 3 & 1 & 18 & 22 \\ 30 & 14 & 47 \\ July \ . & 30 & 3 & 31 \\ 80 & 9 & 45 \\ Aug. \ . & 27 & 4 & 59 \\ Oct. \ . & \{26 & 17 & 43 \\ Oct. \ . & \{26 & 17 & 43 \\ 26 & 17 & 43 \\ Oct. \ . & \{26 & 17 & 43 \\ Oct. \ . & \{26 & 17 & 43 \\ Oct. \ . & \{26 & 627 \\ 24 & 21 & 48 \\ \end{pmatrix}} \end{pmatrix} \tag{May . & 29 & 17 & 18 & 29 & 10 & 47 \\ June . & 29 & 17 & 18 & 29 & 10 & 47 \\ June . & 28 & 5 & 57 & 28 & 0 & 41 \\ July . & 27 & 18 & 41 & 27 & 15 & 49 \\ Oct & \{21 & 11 & 19 & 14 \\ Oct & \{24 & 20 & 9 & 24 & 28 & 26 \\ Oct & \{21 & 8 & 58 & 24 & 14 & 38 \\ Nov & \{22 & 21 & 87 & 28 & 4 & 89 \\ \end{pmatrix}} \end{pmatrix} \]		MAY	. 2 13 19	2 23 45		APRIL	1 -	1
July . 30 3 31 80 9 45  Aug 28 16 15 28 18 0  Sept 27 4 59 27 2 15  O	-		(125	1	1	ľ	i	29 10 47
July . 30 3 31 \\ 80 9 45 \\ Aug 28 16 15 28 18 0 \\ Sept 27 4 59 27 2 15 \\ Oct \\ (26 17 43) 26 11 19 \\ Nov 25 6 27 24 21 48 \\ July . 27 18 41 27 15 49 \\ Olive (11 18 3) 11 9 14 \\ Aug \\ (26 7 25 26 7 88 \\ Sept 24 20 9 24 28 26 \\ Oct \\ (26 17 43) 26 11 19 \\ Nov \\ (25 6 27 24 21 48) \\ Nov \\ (22 21 87 28 4 89 \\ Nov \\ (22 21 87 28 4 89 \)		JUNE	. 1)				1	1
Aug 28 16 15 28 18 0 Sept 27 4 59 27 2 15 O (11 28 21 11 19 54 Oct (26 17 43 26 11 19 Nov 25 6 27 24 21 48 O (11 18 8 11 9 14 Aug (26 7 25 26 7 88 24 20 9 24 28 26 0ct 21 8 58 24 14 38 26 11 19 25 26 27 24 21 48 26 11 19 25 26 27 24 21 48 26 11 19 25 26 27 24 21 48 26 11 19 25 26 27 24 21 48 26 11 19 25 26 27 24 21 48 26 11 19 26 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28		JULY	'	1) 1 0 01				
Sept. 27 4 59 27 2 15 Aug \( 26 7 25 \) 26 7 88 Oct \( (26 17 48) \) 26 11 19 54 Nov \( 25 6 27 \) 24 21 48 Nov \( (26 17 48) \) 25 6 27 24 21 48 Nov \( (26 17 48) \) 25 6 27 24 21 48 Nov \( (26 17 25) \) 22 21 87 28 4 89		1 .			11			
Oct   21 23 21 11 19 54   Sept   24 20 9 24 28 26   Oct   25 6 27 24 21 48   Nov   22 21 87 28 4 89		1	1	1	11		12	1
Ост.     1 (26 17 43) 26 11 19     Ост.     21 8 58 24 14 38       Nov.     25 6 27 24 21 48     Nov.     22 21 37 23 4 39				1	11		(	
Nov 25 6 27 24 21 48 Nov 22 21 87 28 4 89		F _	1)	1	H			
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DEC   22 10 21   22 17 34		1	1		11	1		
		DEC.	- Z# 19 1.	⊥   24		DEC.	.   22 10 21	. 22 17 84
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Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 1776. G.F. March. d. h. m. 20 2 56	JAN  O FEB MAR APRIL MAY . JUNE . O . AUG SEPT OCT NOV DEC	d. h. m. 20 23 6 { 4 17 28 {19 11 50 20 0 84 18 18 18 18 2 2 16 14 46 {16 8 30 {30 21 52 14 16 14 18 4 58 12 17 42 11 6 26	d. h. n. 21 5 19 4 16 41 19 15 58 20 1 27 18 10 29 17 19 41 16 5 55 15 17 55 31 4 8 14 8 5 13 0 11 12 17 27 11 10 52	A.D. 1779. C. March. d. h. m. 20 20 22	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV O DEC	d. h. m. 17 14 15 16 2 59 17 15 44 16 4 28 [15 17 12] (30 11 34 14 5 56 13 18 40 12 7 24 10 20 8 10 8 52 [8 21 36 23 15 58	d. h. m.  17 19 55 16 14 1 18 5 33 16 17 57 16 3 34 30 7 7 14 11 11 13 17 55 12 0 48 10 8 57 9 19 20 8 8 32
1777. E. 20 8 45	JAN. O FEB.	$ \begin{cases} 9 & 7 & 56 \\ 24 & 2 & 16 \\ 7 & 20 & 36 \\ 9 & 9 & 26 \\ 7 & 22 & 6 \\ 7 & 10 & 5 \\ 5 & 23 & 8 \\ 5 & 12 & 1 \\ 20 & 6 & 4 \\ 4 & 1 \\ 2 & 18 & 4 \\ 81 & 15 & 6 \end{cases} $	4 9 18 14 6 23 18 41 8 7 2 2 9 17 47 6 8 2 48 0 7 10 48 4 5 18 20 8 5 2 48 10 20 15 10 2 8 12 50 6 2 1 44 31 11 18 30 5 5	20 2 11 3 3 3 3 3 3 3 3 3 5 5 5 5 7 7	JAN. FEB. MAR. AFRII MAY O JUNE JULY AUG. SEFT. OOT. ONOV. DEC.	5 11 49 6 0 85 4 18 10 18 20 2 2 14 4 2 3 2 31 16 1 30 4 5 28 17 4 28 6 2 12 0 6	5 14 20 6 9 0 5 1 33 1 4 15 13 3 18 13 20 5 8 2 2 9 2 10 37 3 31 17 59 7 30 1 14 11 28 9 24 15 27 19 16 17 12 6 51 9 26 7 23
1778. p. 20 14 8	Jan. Feb.	28 5 5 26 18 2 28 6 19 26 8 24 21 24 9 22 22 11 11 21 0 19 12 5 4 7	26 28 17 10 27 7 1 55 28 18 4 89 27 8 8 28 26 11 7 24 17 1 51 24 1 85 22 10 19 20 21 1 8 20 11 47 19 5 9 4 7	9 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		24 20 9 23 9 24 22 28 10 2 22 28 2 21 12 2 1 19 18 2 17 15 7 16 8	87 24 14 88 21 28 8 29 5 25 2 88 49 23 19 28 83 23 10 19 17 21 22 48 1 21 8 55 45 19 17 42 29 18 2 8 18 17 10 50 57 15 20 48

Mean Vernal Equino		Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1782			d. h. m.	d. h. m.	A.D. 1785.		d. h. m.	d. h. m.
F.		JAN	14 5 25	13 20 59	В.	JAN	10 20 35	11 4 2
d. $h$ .		Fев	12 18 9	12 11 27	d. $h.$ $m.$	FEB	9 9 19	9 15 6
20 13		Mar	γ14 6 54	14 3 11	20 7 15	MAR	10 22 4	11 1 0
		0	129 116	29 10 51		APRIL	9 10 48	9 10 2
	-	APRIL	12 19 38	12 19 37		MAY .	8 23 32	8 18 49
		May .	12 8 22	12 12 1		JUNE.	7 12 16	7 4 11
	İ	June.	10 21 6	11 3 31		JULY.	7 1 0	6 15 4
		July.	10 9 50	10 17 31		Aug	5 13 44	5 4 6
ŀ		Aug	8 22 34	9 5 48		SEPT	4 2 28	3 19 21
		Sept	f 7 11 18	7 16 40		Ocr	3 15 12	3 12 19
		0	22 5 40	21 16 38		Nov	2 3 56	2 6 3
ì		Ост	7 0 2	7 2 46		DEC	$\int 1 16 40$	1 23 22
		Nov	<b>5 1</b> 2 46	5 12 45			31 5 24	81 15 19
	ļ	DEC	5 1 30	4 23 6			414 00 4C	14 15 4
1783	i.	JAN	3 14 14	3 10 3	1700	0	$\begin{cases} 14 & 23 & 46 \\ 29 & 18 & 8 \end{cases}$	14 15 4 80 5 18
E.		FEB	2 2 59	1 21 37	1786.	JAN	28 6 52	28 16 55
20 19	<b>3</b> 8	MAR	( 3 15 43	3 9 53		FEB MAR	29 19 36	30 2 35
		0	18 10 5	18 23 55	20 13 4	APRIL	28 8 20	28 10 47
		APRIL	2 4 26	1 23 2		MAY.	27 21 4	27 18 16
		М	f 1 17 10	1 13 9		JUNE.	26 9 48	26 2 1
		MAY .	31 5 54	31 4 9			(11 4 10	11 13 3
	- 1	June .	29 18 38	29 19 32		JULY.	25 22 82	25 11 7
	- 1	JULY.	29 7 22	29 10 43		Aug.	24 11 16	28 22 81
		Aug	27 20 6	28 1 8		SEPT.	23 0 0	22 12 46
		0	∫11 14 28	11 1 37		Oct.	22 12 44	22 5 41
	Ì	SEPT	26 8 50	26 14 28		Nov.	21 1 28	21 0 21
	ļ	Oct	25 21 34	26 2 51		DEC.	20 14 12	20 19 21
		Nov	24 10 18	24 14 32	İ			i
İ		DEC	23 23 2	24 1 45		0	J 4 8 34	4 2 4
1784	1	JAN	22 11 47	22 12 38	1787.	JAN	19 2 57	19 18 12
D.C.	•	FEB	21 0 31	20 23 9	G.	FER	17 15 41	18 4 48
		0	∫ 6 18 53	7 5 56	20 18 53	MAR.	19 4 25	19 17 22
20 1	27	MAR.	(	21 9 33		APRIL	17 17 9	18 8 22
		APRIL	20 1 59	19 20 16		MAY.	17 5 53	17 11 21
1		MAY .		19 7 53		JUNE.	15 18 87	15 18 14
		JUNE.		17 20 54		-0	30 12 59	80 17 1
		JULY	1	17 11 23		JULY.	15 7 21	15 1 5
1		A.UG.	٠			Aug	18 20 5	18 9 1 11 19 5
		SEPT.	14 17 90	30 16 46		SEPT	12 8 49	11 19 5
		0	14 0 00	14 19 6		Nov.	11 21 83	10 0 8
		Nov.				DEC.	1	9 18 38
		DEC.	. 12 19 7	18 1 51		DEC.	$ \begin{cases} 9 & 28 & 1 \\ 24 & 17 & 28 \end{cases} $	24 17 22
		EU.	.   14 , 51	12 15 36			(4x 11 45	23 11 22

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1788. F.E. March. d. h. m. 20 0 42	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC  JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG. SEPT.	C   Full Ecl.	d. h. m. 8 14 13 7 9 13 8 2 5 6 15 58 6 2 50 4 11 17 3 18 19 2 1 1 31 8 31 29 17 47 29 5 37 27 20 21 27 18 41  26 8 37 25 8 39 26 21 16 25 12 22 9 11 45 25 0 32 28 10 9 22 18 3 3 19 9 8		Jan Feb Mar April O May . June . July . Aug Sept O Oct Nov Dec Feb Mar April May . June . June . June .	d. h. m. 5 2 55 8 15 40 5 4 24 { 8 17 8 8 18 11 30 8 5 52 1 18 36 { 1 7 20 80 20 4 29 8 48 27 21 32 { 12 15 54 27 10 16 25 28 0 25 11 44 24 0 28 22 18 12 23 1 56 21 14 40 21 8 22 19 16 6 17 17 8	d. h. m. 4 18 42 8 8 15 4 28 8 8 15 0 18 19 15 8 7 18 1 23 18 1 14 2 81 8 19 29 15 4 28 1 44 12 8 55 27 11 57 25 22 16 25 8 59 28 20 9 22 7 52 22 20 16 21 9 85 20 28 56 3 19 15 8 2 19 6 27 5 17 21 28
1790. c. 20 12 20	Ocr. O Nov. DEC.  JAN. FEB.	. 19 3 5 4 2 22 1 . 17 16 3 . 17 5 2 . 15 18 . 14 6 5 . 15 19 3 4 . 11 22 8 . 10 11 1 8 23 8 . {8 12 4 23 7 7 1 1 2 2 1 1 2 2 1 2 3 7 7 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 8 2 42 8 17 5 16 2 16 18 85 7 15 10 10 1 14 8 22 5 15 21 17 9 14 14 45 11 29 2 28 8 14 6 87 12 20 14 11 2 7 84 10 17 7 19 1 46 48 8 10 25 5 28 8 16 27 6 19 5	333335	SEPT. OCT. NOV. DEC.  JAN. FEB. O MAR. APRI MAY JUNE JULY AUG. O SEPT OCT. NOV. DEC.	. 15 19 . 14 7 4 . 18 20 8 . 12 9 1 . 10 22 25 16 8 . 12 10 4 . 10 12 8 . 10 12 8 . 10 12 8 . 2 21 20 . 5 15 . 5 8 . 8 16	4 16 0 46 8 14 18 2 2 14 0 88 7 12 11 48 10 22 18 28 26 1 5 12 8 82 29 10 18 46 18 10 5 44 18 7 14 25 6 22 22 47 21 16 58 9 5 14 29 58 5 6 47 87 87 8 22 30

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 1794.		d. h. m.	d. h. m.	A.D. 1797.		d. h. m.	d. h. m.
E.	Jan	{ 1 18 5   31 6 50	2 2 22 31 14 9	March. d. h. m.	Jan Feb	27 22 0 26 10 44	28 3 58 26 21 55
March.	FEB. O	15 1 12	15 0 32	20 5 1	MAR	27 23 28	28 13 16
d. h. m. 20 11 35	MAR	{ 1 19 34 { 31 8 18	2 0 31 31 9 43		APRIL MAY.	26 12 12 26 0 56	27 1 82   26 11 2
	APRIL	29 21 2	29 18 17		0	(91918	9 13 46
	MAY.	29 9 46	29 3 1		June .	{24 13 40	24 18 37
	JUNE .	27 22 30	27 12 53		JULY.	24 2 24	24 1 22
	JULY.	27 11 14	27 0 42		Aug	22 15 8	22 8 26
}	0	(11 5 36	11 9 36		SEPT	21 3 52	20 16 49
i .	Aug	25 23 58	25 14 52		Oct	20 16 36	20 3 25
Ì	SEPT	24 12 42	24 7 13		Nov	<b>1</b> 9 <b>5</b> 20	18 16 45
	Ocr	24 1 26	24 0 54		0	3 23 42	4 6 36
1	Nov	22 14 10	22 18 48		DEC: .	(18 18 4	18 8 50
	DEC	22 2 54	22 11 45				
1795.	JAN.	20 15 38	21 2 50	1798.	JAN	17 6 48	17 3 8
· D.	0	(4100	4 2 56	G.	FEB	15 19 32	15 22 6
	FEB	19 4 22	19 15 36	20 10 50	MAR	17 8 16	17 16 27
20 17 24	MAR	20 17 6	21 2 8		APRIL	15 21 0	16 8 47
	APRIL	19 5 50	19 10 50		MAY .	$\int 15 944$	15 22 22
	MAY .	18 18 34	18 18 23		_ 0	(30 4 6	29 20 30
	JUNE .	17 7 18	17 1 43		JUNE.	13 22 28	14 9 11
	July .	516 20 2	16 9 54		JULY .	13 11 12	13 17 54
	0	31 14 24	31 22 13		Aug	11 23 56	12 1 30 10 9 6
1	Aug.	1	14 20 3		SEPT.	10 12 40 10 1 24	10 9 6 9 17 85
Ì	SEPT.		13 8 58		Nov.	10 1 24	8 3 44
	Ост.	. 18 10 14	13 0 38		0	23 8 30	23 14 55
	Nov.		11 18 43		DEC	8 2 52	7 15 55
	DEC.	. 11 11 42	11 13 53			0 202	
1796.	JAN.	. 10 0 26	10 8 36	1799.	JAN	6 15 36	6 6 19
, C.B.	FEB.	8 13 11	9 1 25	F.	FEB.	5 4 21	4 22 38
19 23 13	I .		9 15 29	20 16 39	MAR.	6 17 5	6 15 6
	APRIL		8 2 42	-0 -00	APRIL	5 5 49	5 9 48
1	MAY	1	7 11 25		MAY .	4 18 33	5 2 21
	JUNE	1 .	5 18 38		June .	3 7 17	8 17 6
	July Aug.		5 1 18 3 8 33		July .		8 5 97
	SEPT.				1.	(1 845	1 16 7
		(119 8			A.UG	30 21 29	81 1 19
	Ост.	31 7 47		NI .	SEPT	29 10 13	29 10 6
	Nov.	. 29 20 31		H	Oct		28 19 19
	0	(14 14 5		.	Nov.		27 5 29
	DEC.	. 29 9 1	5 29 8 23	:	DEC.	27 0 25	26 16 52
<u> </u>					1	1	

			-					
١ ١	Mean Vernal quinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
I d	1801. D. 21 4 17	JAN FEB MAR OAPRIL MAY . JUNE . JULY . AUG SEPT OAPRIL MAY JUNE . OCT NOV OCT NOV DEC JAN FEB MAR . OAPRIL MAY JUNE . OCT. NOV. DEC. JAN OAPRIL MAY JUNE . OAPRIL MAY JUNE . OAPRIL MAY JUNE . OAPRIL MAY JUNE . OAPRIL MAY JUNE . OAPRIL MAY JUNE . OAPRIL MAY JUNE . OAPRIL MAY JUNE .	C Full Ecl.     d. h. m.     25 13 9     24 1 53     25 14 37     9 8 59     24 3 21     23 16 5     22 4 49     21 17 33     20 6 17     18 19 1     3 13 23     16 20 29     16 9 14     14 21 58     14 28 24     29 17 4     13 12 11     13 0 5     11 13 2     13 12 12     14 28 24     29 17 4     13 12 16     14 28 24     29 17 4     13 12 16     14 28 24     29 17 4     15 8 8 8 8     22 22 1     16 5 18     4 6 4     2 19 1     4 8     19 2     2 9     31 21     30 12     30 1	d. h. m.  25 5 35 23 19 36 25 10 43 9 18 54 24 2 36 23 18 38 22 10 3 22 0 14 20 12 56 19 0 19 3 0 4 18 10 57 16 21 24 16 8 1 14 18 58 13 6 14 16 18 1 30 7 48 11 10 42 11 2 0 6 11 10 42 11 2 0 6 11 10 42 11 2 0 6 11 10 42 11 2 0 6 11 10 42 11 2 10 10 8 8 16 12 29 24 14 7 22 10 16 11 2 17 22 10 18 6 11 18 6 33 14 17 42 18 6 11 18 8 8 18 18 6 14 18 18 6 38 18 7 8 18 8 8 8 8 18 8 8 18 8 8 18 8 8 8 18 8 18 8 18 8 8 18	A.D. 1803. B. March. d. h. m. 21 15 54  1804. A.G. 20 21 43  1805. F. 0 21 8 8	APRIL MAY JUNE JULY O AUG. SEPT. OCT. NOV. DEC.  JAN. FEB. MAR. APRI MAY JUNE	d. h. m.  28 4 19 21 17 3 28 5 47 21 18 31 21 7 15 19 19 59 19 8 48 17 21 27 16 10 11 15 22 55 14 11 89 14 0 28  (12 18 7 27 7 8 11 1 4 8 20 11 1 5 21 11 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 8 21 14 14 14 8 21 14 14 14 14 14 14 14 14 14 14 14 14 14	d. h. m.  23 12 50 21 23 49 23 9 28 21 17 59 21 2 19 19 11 18 18 21 56 17 10 58 16 2 18 15 19 36 14 18 46 14 7 33 12 23 46 26 23 31 11 13 47 12 1 20 10 10 48 9 18 35 8 1 44 2 7 9 17 4 22 19 55 6 5 18 17 0 4 5 48 4 3 20 5 8 1 44 2 7 9 17 4 22 19 55 6 5 18 17 0 4 5 48 4 3 20 5 8 1 44 2 7 9 17 4 22 19 55 6 5 18 17 0 4 5 48 4 3 20 5 8 1 1 22 8 11 66 1 1 8 26 1 1 8 26 1 1 1 2 3 1 1 2 3 1 1 2 3 1 2 3 46 2 2 8 11 3 2 1 2 1 3 2 1 3 4 3 2 1 3 4 4 3 2 1 3 5 3 3 1 4 4 3 2 1 3 5 3 3 1 4 4 3 2 1 3 5 3 3 1 1 2 4 4 3 1 1 2 3 8 1
		Aug Sept Oct. Nov	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	89 28 9 4 1 12 0 4 28 27 2 7 7 26 18 5 51 25 10	18 18 18 7	July Aug Sept Oct. Nov. Dec.	25 8 28 16 28 5 21 18 21 6	49 24 16 81 88 28 2 48 17 22 16 12 1 21 8 2 45 21 2 86
				1	7.05			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 1806.		d. h. m.	d. h. m.	A.D. 1809.		d. h. m.	d. h. m.
March. d. h. m.	O Jan Feb	$ \begin{cases} 5 & 1 & 7 \\ 19 & 19 & 30 \\ 18 & 8 & 13 \end{cases} $	5 2 21 19 22 11 18 17 4	March. d. h. m. 21 2 47	JAN Feb Mar	16 10 39 14 23 23 16 12 7	16 3 27 14 16 37 16 6 55
21 9 21	MAR APRIL	19 20 57 18 9 41	20 9 48 18 23 32		APRIL O	$\begin{cases} 15 & 0 & 51 \\ 29 & 19 & 13 \end{cases}$	14 22 11 30 3 5
	MAY. JUNE. JULY.	17 22 25 16 11 9 15 23 53	18 10 16 16 18 41 16 1 44		MAY. JUNE. JULY.	14 13 35 13 2 19 12 15 3	14 14 1 13 5 43 12 20 37
	Aug Sept	14 12 37 13 1 21	14 8 36 12 16 19		Aug	11 3 47 9 16 31	11 10 13 9 22 24
	Oct Nov Dec	12 14 5 11 2 49 10 15 33	12 1 49 10 13 50 10 4 36		Oct O Nov	$ \begin{cases} 9 & 5 & 15 \\ 23 & 23 & 37 \\ 7 & 17 & 59 \end{cases} $	9 9 43 23 11 33 7 20 26
1807.	Jan	9 4 17	8 21 48		DEC	7 6 43	7 7 7
21 15 10	FEB MAR APRIL	7 17 2 9 5 46 7 18 30	7 16 29 9 11 13 8 4 34	1810. G.	JAN FEB	5 19 27 4 8 11	5 17 56 4 4 56
	MAY .	$ \begin{cases} 7 & 7 & 14 \\ 22 & 1 & 36 \end{cases} $	7 19 29 21 19 7	21 8 36	MAR APRIL MAY .	5 20 55 4 9 40 3 22 24	5 16 12 4 4 2 8 16 46
	JUNE . JULY . Aug	5 19 58 5 8 42 3 21 26	6 7 89 5 17 21 4 1 20		JUNE . JULY .	2 11 8 1 23 52	2 6 38
	SEPT.	2 10 <b>1</b> 0	2 9 9 1 17 15		Aug Sept	30 1 20 28 14 4	81 12 59 80 4 20 28 19 2
	o Nov.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 10 36		Oct Nov	28 2 48 26 15 32 26 4 16	28 8 58 26 21 86 26 9 81
1808.	DEC.			1811.	DEC	24 17 0	24 20 38
с.в. 20 20 59	FEB. MAR.	. 26 14 35 . 27 3 19	26 11 11 27 4 87	F. 21 14 25	FEB O MAR	28 5 44 (10 0 6) 24 18 28	
	APRII O May	∫10 10 23	5 10 10 7	21 14 25	APRIL MAY	23 7 12	28 2 29 22 12 46
	June July	. 23 6 15	23 14 36		JUNE .	20 21 24	21 0 23 20 13 48 19 4 58
	Aug. Sept. Oct.		3 20 9 41	.	Aug.	3 4 30	3 0 39
	Nov.	$ \begin{cases} 3 & 14 & 4 \\ 18 & 9 & 1 \\ . & 17 & 21 & 56 \end{cases} $	1 18 4 37	·    `	Oct. Nov. Dec.	. 16 0 20	16 6 32
	.		1				

Mean		Mean New	True New	Mean		Mean New	True New
Vernal Equinox.	Month.	(O Full Ecl.)	(O Full Ecl.)	Vernal Equinox.	Month.	Moon. O Full Ecl.) (	Moon.
A.D. 1812.		d. h. m.	d. h. m.	A.D. 1815.		d. h. m.	d. h. m.
E.D.	JAN	14 1 49	14 11 9	A	JAN	10 16 58	10 16 20
March.	FEB	∫12 14 33	12 22 54	March. $d. h. m.$	FEB	9 5 43	9 11 44
d. h. m.	0	27 8 55	27 8 12	21 13 40	MAR	10 18 27	11 5 36
20 20 14	MAR.	13 3 17	13 9 0		APRIL	9 7 11	9 20 49
	APRIL	11 16 1	11 17 48		MAY .	8 19 55	9 8 57
1	MAY .	11 4 45	11 1 56		June.	∫ 7 8 <del>3</del> 9	7 18 23
1	JUNE .	9 17 29	9 10 17		0	22 3 1	21 20 23
1	July.	9 6 13	8 19 52		July.	6 21 23	7 2 0
1	Aug.	7 18 57	7 7 33		Aug	5 10 7	5 8 54
1	0	(22 13 19	22 17 7		SEPT.	3 22 51	3 16 11
	SEPT.	6 7 41 5 20 25	5 21 46		Oct	8 11 35	3 0 50
	Nov.	4 9 9	5 14 21 4 8 23		Nov	2 0 19	1 11 37
	DEC.	3 21 53	4 2 48		D 0	16 7 25	1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	DEC	0 21 00	4 2 40		DEC. O	31 1 47	30 17 4
		( 2 10 37	2 20 6		ŀ	01 1 41	30 11 4
1813.	JAN	81 28 22	1		_	00 14 00	00.11 0
c.	FEB. C		1) 111 20	1816.	JAN.	29 14 32	29 11 3
21 2 8				G.F.	FEB	28 3 16 28 16 0	28 5 45 28 23 47
		(1 0 50	1 10 21	20 19 29	MAR.	27 4 44	1 '1
	APRIL	80 18 84	30 18 42	!	APRIL MAY.	26 17 28	
	MAY .	80 2 18	30 1 57			(10 11 50	1
	JUNE	. 28 15 2	28 9 4		JUNE.	25 6 12	1
	JULY	. 23 3 46	27 17 9		JULY.	24 18 56	
	0	(11 22 8	3 12 5 18		Aug.	23 7 40	1
	Aug.	. \26 16 8	0 26 3 16		SEPT.	21 20 24	21 17 5
	SEPT.	. 25 5 14	1		Oct	21 9 8	3 21 1 57
	Ocr.	1			Nov.	19 21 52	2 19 12 19
	Nov.	1				∫ 4 16 1·	1
	DEC.	. 22 19 2	6 22 21 52		DEC.	19 10 3	6 19 0 34
1014	JAN.	. 21 8 1	0 21 16 43			į	
1814. B.	FEB.			1817.	JAN.	17 23 2	0 17 14 47
21 7 5				11	FEB.	1 40 40	4 16 6 39
21 10	APRII			11	MAR.	. 18 0 4	
1	MAY	·	6 19 19 2	11	APRIL	16 13 3	1 .
	June			111	MAY		1
	July			.	June	•	0 14 23 48
	Aug.			:	July		2 - 2 - 3
	SEPT.	11	2 14 1 7	·	Aug.		الأسا عاليا
	Oct.	. 14 2 4	6 13 12 47	,	SEPT.		7 1 78 00 500 6
1	Nov.	. 12 15 8		3	Oct.	1 0 0 4	1 1 1 1 1
	DEC.	. 12 4 1	4 11 21 5	5	Nov.	0 40 0	** ** *** *** *** *** ***
	0	26 22 8	36 27 1 21	L	DEC.	8 19 2	3 14 20
					_1	1	1 1.7.

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1818.		d. h. m.	d. h. m.	A.D. 1821.		d. h. m.	d. h. m.
D.	JAN	788	7 1 43	G. March.	JAN	3 23 18	4 8 56
d. h. m.	FEB	5 20 53	5 14 9	d. h. m.	FEB	2 12 2	2 21 36
21 7 7	MAR	7 9 37	7 3 39	21 0 33	MAR	4 0 46	4 8 24
	APRIL	( 5 22 21	5 18 10		APRIL	2 13 31	2 17 37
	0	20 16 43	21 2 49		MAY .	5 2 2 15	2 1 48
	MAY .	5 11 5	5 9 31		mai .	<b>\21 14 5</b> 9	31 9 44
	JUNE.	3 23 49	4 1 13		June .	30 3 43	29 18 25
	JULY.	3 12 33	3 16 34		July .	29 16 27	29 4 52
	A	(2 1 17	2 6 58		Aug	28 5 11	<b>27 17 4</b> 9
1	Aug	(31 14 1	81 20 6		SEPT	26 17 55	26 9 23
	SEPT	30 2 45	30 8 5		Oct	26 6 39	26 3 1
	0	(14 21 7	14 7 42		Nov	24 19 23	24 21 37
	Ocr	29 15 29	29 19 17		DEC	24 8 7	24 15 46
	Nov	28 4 13	28 6 9				
1	DEC	27 16 57	27 17 0	1822.	JAN	22 20 51	23 8 12
1010	T	26 5 42	26 3 52	F	0	( 6 15 13	6 7 55
1819.	JAN.		24 14 48		FEB	21 9 35	21 22 12
	FEB.	24 18 26 26 7 10	26 2 3	21 6 22	MAR	22 22 20	28 9 85
21 12 56	MAR		10 15 31		APRIL	21 11 4	21 18 41
ŀ	0	1)	24 13 58		MAY .	20 23 48	21 2 14
1	APRIL	24 19 54	24 2 59		JUNE .	19 12 82	19 9 11
1	MAY .	22 21 22	22 17 14		JULY .	19 1 16	18 16 35
1	JUNE .	22 10 6	22 8 26			( 2 19 38	3 2 49
1	JULY.	20 22 50	21 0 3		Aug	17 14 0	17 1 33
	Aug.	19 11 84	19 15 23		SEPT	16 2 44	15 18 8
1	SEPT.	(4 5 56			Oct	15 15 28	15 8 85
	OCT.	$\begin{cases} 19 & 0.18 \\ 19 & 0.18 \end{cases}$	1		Nov	14 4 12	13 20 56
	7.7	15 10 0		H	DEC	13 16 56	18 16 5
	DEC.	17 1 40					
	DEC.			1823.	JAN.	(12 5 40	12 11 29
1820.	JAN.	L	1	E.	0	27 0 2	1
B.A.	FEB.				FEB.	10 18 24	11 5 29
20 18 44	MAR.	12	1	21 12 11	MAR.	1	1
	0	29 10 20			APRIL	10 19 52	1
	APRIL		1	1	MAY		1
	MAY				JUNE	T	
	JUNE .		1		JULY		
	July			1	0	28 4 20	
	Aug.				Aug.		
	SEPT.	1)	1		SEPT.		
	0	22 14 44			Oct.		
	Oct.	7 9 6	1		Nov.		2 23 47
	Nov.	1	1		DEC.		
	DEC.	. 5 10 84	5 18 27				

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 1824.		d. h. m.	d. h. m.	A.D. 1827.		d. h. m.	d. h. m.
D.C.		(1 14 28	1 10 36	G.	JAN	27 18 22	27 12 10
	Jan. O	16 8 51	16 11 20	March. d. h. m.	FEB	26 7 6	26 0 54
		31 3 13	31 6 34	21 11 26	MAR	27 19 51	27 14 37
March. $d. h. m.$	FEB	29 15 57	1 0 48		APRIL	26 8 35	26 5 18
20 18 0	MAR.,	30 4 41	30 17 22		0	(11 2 57	11 10 48
	APRIL	1	29 6 57		MAY.	25 21 19	25 20 40
	MAY .	28 6 9	28 17 37		June.	24 10 3	24 12 11
	JUNE .	26 18 53	27 2 1		JULY.	23 22 47	24 3 12
	0	(11 13 15	11 6 45		Aug.	22 11 31	22 17 11
	JULY.	26 7 37	26 9 13		SEPT.	21 0 15	21 6 0
	Aug.	24 20 21	24 16 18		Oct.	20 12 59	20 17 49
	SEPT.	23 9 5	23 0 16		001.	(4 7 21	3 19 20
	OCT.	22 21 49	22 10 3		Nov.	19 1 43	19 5 4
	Nov.	21 10 83	20 22 11		DEC.	18 14 27	18 16 3
	DEC.	20 28 17	20 12 57				
				1828.	T	17 3 11	17 2 54
1825.	JAN.	19 12 1	19 5 56	F.E.	JAN.	1	17 2 54 15 13 40
13.	FEB	1 1	18 0 15		FEB.	15 15 55	16 0 2S
20 23 49	MAR.	1	19 18 37	20 17 15	MAR	16 4 39	16 0 25
	Arnin	1	18 11 41		APRIL	14 17 23 14 6 7	13 23 50
	MAY		18 2 28		MAY.	14 6 7 12 18 51	12 13 16
	0	$\{1919$	1 2 25		JUNE.	12 18 51	12 13 10
	June	i	16 14 38		JULY.	10 20 19	10 19 31
	July	1	16 0 32		Aug.	9 9 3	9 11 16
	Aug.	1	14 8 58		SEPT.	8 21 47	9 2 33
1	Вкрт.	. 1	12 16 59		Oct.	7 10 31	7 16 56
	Ocr.	. 12 6 87	12 1 28		Nov.		7 6 14
	Nov.	1.12	10 11 12		DEC.	0 25 15	. 011
1	0	25 13 48	25 18 88				
	DEC.	. 10 8 5	9 22 33	1829.	JAN.	5 11 59	5 18 24
1826.	JAN.	. 8 20 49	8 11 44	D.	FEB.	. 4 0 44	4 5 31
Α.	FRB.	. 7 9 88	7 2 38	20 23 4		1.7	5 15 36
21 5 87	1	0.00.47	8 18 54		0	120 7 50	20 16 9
	APRII	7 44 0	7 11 48		APRIL	0 4 4 70	4 0 57
	MAY	0.00.40	7 4 28		MAY	0 0 40	3 10 7
	O	21 18 8	21 17 48		June		1 19 55
	June	5 12 80	5 20 0		July	$\begin{cases} 1 & 16 & 24 \\ 0 & 5 & 6 \end{cases}$	
	July		5 9 47		•	(91 9 6	
	Aug.	0 40 50	8 21 40		Aug.	1	
	SEPT.	0 0 40	283		~ 0	13 12 14	11
		( 1 15 20	1 17 80		SEPT.	1	1
	Oct.	1 81 4 10	81 8 16		Oct.	26 8 4	
	0	(14 22 8)	2 14 18 28	·	Nov.	07 00 49	1
	Nov.	. 29 16 5	4 29 13 25	•	DEC.	. 25 20 48	20 011
	DEC.	. 29 5 88	3 29 0 21	.			RR

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1830.		d. h. m.	d. h. m.	A.D. 1833.		d. h. m.	d. h. m.
c.	JAN	24 9 33	24 19 53	F.	0	∫ 6 6 20	6 10 19
March.	Feb	22 22 17 ( 9 16 39	23 7 32 9 15 50	March.	Jan Feb	19 13 27	21 0 17 19 19 31
d. h. m. 21 4 52	O Mar	24 11 1	24 17 21	$egin{array}{ccccc} d. & h. & m. \\ 20 & 22 & 19 \\ \end{array}$	MAR.	21 2 11	21 13 11
21 ± 32	APRIL	22 23 45	23 1 46	20 22 10	APRIL	19 14 55	20 4 18
	MAY.	22 12 29	22 9 4		MAY .	19 3 39	19 16 16
	JUNE .	21 1 13	20 17 33		JUNE .	17 16 23	18 1 42
	JULY.	20 13 57	20 2 53		0	( 2 10 45	2 3 2
	Aug	19 2 41	18 14 29		JULY.	17 5 7	17 9 24
	0	(221 3	3 0 44		Aug	15 17 51	15 16 81
	SEPT	17 15 25	17 4 49		SEPT	14 6 35	14 0 3
	Ост	17 4 9	16 21 40		Oct	13 19 19	13 8 59
	Nov	15 16 53	15 16 8		Nov	12 8 3	11 20 0
	DEC	15 5 37	15 10 52		DEC	∫11 20 47	11 9 29
					0	126 15 9	26 23 57
1831.	JAN	13 18 21	14 4 26	1834.	JAN	10 9 31	10 1 20
B.	FEB	ſ12 7 5	12 19 44	E.	FEB	8 22 15	8 18 57
	0	₹27 1 27	26 19 15	21 4 8	Mar.	10 10 59	10 18 17
21 10 41	MAR	13 19 49	14 8 19		APRIL	8 23 43	9 6 57
1	APRIL	12 8 33	12 18 22		MAY .	8 12 27	8 22 52
	MAY .	11 21 17	12 2 27		JUNE.	7 1 11	7 12 20
	JUNE.	10 10 1	10 9 28		0	21 19 88	21 10 48
	JULY.	9 22 45			JULY.	6 13 55	6 23 22
	Aug	8 11 29	1		Aug	5 2 39	5 8 33
-	0	7 0 18			SEPT	3 15 23	8 16 50
	SEPT	7 0 13 6 12 57	1		Oct	3 4 7	8 1 12
	Nov.	5 1 41			Nov	1 16 51	1 10 25 30 21 2
	DEC.	4 14 2	1			1 5 85	
					DEC. O	11	16 7 18
1832.	JAN.	3 3 3	3 5 50			(30 18 19	80 9 16
A.G.	FEB.		1	1835.	JAN	29 7 8	28 23 11
		(2 4 3	1	D.	FEB	27 19 47	27 14 85
20 16 30	MAR.	\ \31 17 2		21 9 57	MAR.	29 8 32	29 7 0
	APRIL	30 6	1)		APRIL	27 21 16	27 28 40
	MAY	. 29 18 50	30 2 35		MAY .	27 10 10	27 15 45
	June	. 28 7 39	1 28 9 34		JUNE.	$\begin{cases} 11 & 4 & 22 \\ 25 & 22 & 44 \end{cases}$	
	Jura				JULY .		
	Aug.	į.	2 25 23 39		Aug.	1	
	SEPT.			II .	SEPT.		
	Oct.	_ [		II.	Oct.		
	Nov.	1		14	Nov.	1	1
	DEC.	. 22 11 5	$\begin{vmatrix} 22 & 5 & 8 \end{vmatrix}$		DEC.		

3/4	***************************************		11				
Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	35	Mean New	True New
Equinox.		(O Full Ecl.)	(O Full Ecl.)	Equinox.	Month.	Moon. (O Full Ecl.)	Moon. (O Fuli Ecl.)
4 D	***************************************						
A.D. 1836.		d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
C.B.	JAN	18 15 58	18 10 85	1839. F.	_		
March.	FEB.	17 4 87	16 22 39	March.	JAN	15 7 2	15 17 36
d. h. m. 20 15 45	MAR.	17 17 21	17 11 36	d. h. m.	FEB	13 19 46	14 6 14
1 -0 20	APRIL	16 6 5	16 1 80	21 9 12	MAR	15 8 30	15 16 50
	0	1 0 27	1 10 36		APRIL	13 21 14	14 1 43
	MAY.	15 18 49	15 16 19		MAY.	13 9 58	13 9 30
	June.	14 7 83	14 7 41		JUNE.	11 22 42	11 17 6
	July .	18 20 17	18 28 2		JULY.	11 11 26	11 1 33
	Aug.	12 9 1	12 13 45		Aug	10 0 10	9 11 53
	SEPT.	10 21 45	11 8 23		SEPT	8 12 54	8 0 51
	Ocr.	(10 10 29	10 15 57		Oct	8 1 38	7 16 36
	0	25 4 51	24 15 80		Nov	6 14 22	6 10 33 6 5 31
	Nov.	8 28 18	9 8 48		DEC	6 3 6	6 5 31
	DEC.	8 11 57	8 15 1	40.0	_		
				1840. E.D.	JAN	4 15 50	4 23 57
1837.	JAN	7 0 41	7 1 58	FD.	FEB	3 4 34	3 16 33
۸.	FEB	5 18 25	5 12 41	20 45 4	0	17 22 56	17 10 14
20 21 84	MAR.	7 2 9	6 28 16	20 15 1	MAR	3 17 18	4 6 29
	APRIL	5 14 58	5 9 57		APRIL	2 6 3	2 17 41
		20 9 15	20 28 4		MAY.	$\begin{cases} 1 & 18 & 47 \\ 31 & 7 & 31 \end{cases}$	2 2 31
	MAY .	5 8 87	4 21 16		<b></b>	29 20 15	31 9 50   29 16 35
	JUNE.	8 16 21	8 9 47		JUNE.	29 8 59	29 0 31
	JULY.	8 5 5	2 28 44		JULY.	(13 3 21	13 9 44
	Avo	1 17 49	1 14 55		Aug	27 21 43	27 8 55
		181 6 88	81 6 49		SEPT.	26 10 27	25 20 32
	SEPT	29 19 17	29 22 39		Oct	25 28 11	25 11 13
	0	14 18 89	14 1 22		Nov.	24 11 55	24 4 44
	Ocr.	27 20 45	29 18 50		DEC	24 0 39	24 0 1
	Nov		28 8 57		22.0		
	DRC.	27 9 29	27 16 52	1041	T	22, 18 24	22 19 30
1838.	JAN	25 22 14	26 4 88	1841. c.	JAN	6 7 46	6 4 33
0.	FRH	24 10 58	24 15 0		FEB	21 2 8	21 13 28
21 8 28	MAR.	25 28 42	26 0 28	20 20 50	MAR.	22 14 52	23 4 45
	0	9 18 4	10 4 12	20 20 30	APRIL	21 3 36	21 16 57
	APRIL	124 12 26	24 9 24		MAY.	20 16 20	21 2 22
	MAY .	24 1 10	28 18 88		June .	19 5 4	19 9 54
	Junn.	22 18 54	22 4 47		JULY.	18 17 48	18 16 36
	JULY.	22 2 88	21 16 54		0	2 12 10	2 12 31
	Aug.	20 15 22	20 7 12		Aug	17 6 82	16 23 33
	SEPT	19 4 6	18 28 27		SEPT.	15 19 16	15 7 53
	0	8 22 28	8 16 44		Ост.	15 8 O	14 18 28
	Ост	118 16 50	18 16 51		Nov	13 20 44	13 7 52
	Nov.	17 5 84	17 10 19		DEC	13 9 28	13 0 10
	Date.	16 18 18	17 2 49				
1	1	1		11			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV	(c) Fill Ecl.)  d. h. m.  {11 22 12 26 16 34 10 10 56 11 23 40 10 12 24 10 1 8 8 13 52 { 8 2 36 { 22 20 58 6 15 20 5 4 4 4 16 48 3 5 32 { 2 18 16	d. h. m.  11 18 37 26 20 14 10 13 53 12 8 23 11 0 43 10 14 12 9 0 50 8 9 20 22 13 19 6 16 42 5 0 3 4 8 21 2 18 24 2 6 41 31 21 20	A.D. 1845. E. March. d. h. m. 20 20 5	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT O NOV DEC	d. h. m.  8 13 22 7 2 6 8 14 50 7 3 84 { 6 16 18 { 21 10 40 5 5 2 4 17 46 8 6 30 1 19 14 { 1 7 58 { 30 20 42 { 14 15 4 { 29 9 26 28 22 10	d. h. m 8 9 17 6 20 51 8 9 5 6 22 10 6 12 16 21 18 26 5 3 18 4 18 36 3 9 47 2 0 13 1 13 36 31 2 2 14 3 15 29 13 46 29 1 0
1843. A. 21 8 27	JAN. FEB. MAR. APRIL MAY JUNE JULY AUG. SEPT. OCT. NOV.	1 8 29 30 21 18 29 9 57 23 22 41 27 11 25 27 0 9 25 12 56 24 1 37 23 14 2	30 14 3 1 7 57 3 11 1 54 29 18 39 29 9 21 5 27 21 36 9 27 7 44 3 25 16 32 7 24 0 58 1 23 9 53 5 21 19 54		JAN	27 10 55 25 23 39 27 12 23 26 1 7 25 13 51 24 2 35 23 15 19 22 4 8 20 16 47 20 5 81 18 18 15	27 11 50 25 22 18 27 8 36 25 19 16 25 6 51 28 19 58 23 10 27 22 2 10 20 18 20 20 10 18 19 1 11 18 14 55
1844. G.F. 20 14 1	O DEC. JAN. FEB. MAR APRI MAY O JUNI AUG SEPT OCT. NOV	. {21 15 4 . 20 4 8 . 18 17 1 19 6 17 18 4 . 17 7 8 . 15 20 1 r . 15 8 5 13 21 4 c 12 10 5 11 28 1 	9 21 7 21 4 19 20 21 8 18 10 56 2 19 2 36 6 17 18 56 10 17 11 16 52 1 1 2 14 16 2 3 15 16 3 12 14 4 4 10 11 5 16 25 2 1	1847. c. 21 7 49 3 0 0 0 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	JAN. FEB. MAR. O APRII MAY JUNE JULY AUG. SEPT. O OCT. NOV. DEC.	. 15 8 28 . 16 21 12 81 15 9 56 . 14 22 40 . 13 11 24 . 13 0 8 . 11 12 52 . 10 1 86 . 24 19 56 . 9 14 20	15 14 18 17 0 8 18 123 27 15 8 58 14 17 39 18 3 2 12 13 59 11 3 9 2 11 3 9 6 9 18 34 8 24 16 38 9 11 41 4 8 5 30

				<del></del>			
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. Tull Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. Full Ecl.)
A.D.		d. h. m.	d. h. m.	A.D. 1851.		d. h. m.	d. h. m.
1848.	<b>-</b>	6 4 32	6 14 44	E.	JAN	(2 19 41	2 13 15
March.	JAN.	4 17 16	5 4 31		0	17 14 3	17 19 15
d. h. m.	FEB		5 16 3	March.	FEB	1 8 25	1 8 11
20 13 31	MAR	5 6 0	19 23 17	d. h. m. 21 6 58	Mar.	2 21 9	3 3 7
	0	20 0 22	4 1 33	21 0 00		(1 9 54	1 20 34
	APRIL	3 18 44	- 11		APRIL	30 22 38	1 11 26
	MAY.	3 7 28	-		MAY .	1	30 23 26
	June.	1 20 12			June .	29 0 6	29 8 55
	July .	$\begin{bmatrix} 1 & 8 & 56 \\ 30 & 21 & 40 \end{bmatrix}$	1 0 46 30 9 58		O O	∫13 18 28	13 9 41
1	Aug.	29 10 24	28 21 34		JULY.	28 12 50	28 16 48
		(13 4 46	13 8 27		Aug	27 1 34	27 0 10
1	SEPT	27 23 8	27 12 1		SEPT	25 14 18	25 8 3
	Oct.	27 11 52	27 5 6		Oct	25 8 2	24 17 18
	Nov.		25 28 55		Nov	23 15 46	23 4 31
	DEC.	1 02 20 00 1	25 18 57		DEC	28 4 30	22 17 59
	DEC	20 20 20				( 6 22 52	7 8 37
	_	24 0 5	24 12 43	1852.	JAN.	21 17 14	21 9 37
1849.	JAN.		23 4 2	D.C.	FEB.		20 2 50
G.	FEB.			20 12 47	MAR.		20 20 41
	0	9 9 11	9 3 16 24 16 29	20 12 11	APRIL	19 7 27	19 13 59
20 19 20	MAR.	1 00 40 45			MAY .	40.00.44	19 5 42
	APRII	1			June	1 0	17 19 11
	MAX				0	(2 8 17	1 17 50
	JUNE	1 00 0 00	20 16 46		July	13 - 0 - 00	17 6 25
	Julx	1	19 23 49		Aug.	77 70 00	15 15 57
	Aug.	1	18 7 51		SEPT.		14 0 39
1	0	2 13 35	1		Oct.	13 11 51	13 9 28
	SEPT.	1 7	1			12 0 35	11 19 8
	Oor.	. 16 20 41			Nov.	(11 13 19	1
	Nov.	. 15 9 25	1		DEC.	26 7 41	04
	DEO.	. 14 22 9	14 18 18	11			
			1	1853.	JAN.	1	1
1850.	JAN.	. 13 10 58	18 18 51	в.	FEB.	8 14 47	8 7 36
F.	FEB.	. 11 28 87	l .	1 20 20 0	5 MAR.		
21 1 9	MAR.	. 18 12 21	. 14 1 28		APRI		
	Arri	L 12 1 5		11	MAY	1	- 1
	MAY	. 11 13 49	12 1 42	:	June	1)	1
	JUNE	. 10 2 3	3 10 10 (	)	0		5 21 8 81
	July	9 15 17	7 9 16 58	3	Jura		
	Aug	84	7 28 4	<b>.</b> ∥	Aug	l l	سيدسان
	SEPT		5 6 7 2	L	SEPT	l l	
,	Ocr.		9 5 16 4	3 ∥	Oct.		م سد ا ـ
	Nov		8 4 4 5	2	Nov	1)	8 1 11 3
	DEC		7 3 19 4	7	1404	(30 22	7 80 21 28
					DEC	.   80 10 5	1 80 8 18
	1	· · · · · · · · · · · · · · · · · · ·					

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.
A.D. 1854.		d. h. m.	d. h. m.	A.D. 1857.		d. h. m.	d. h. m.
A.	JAN	28 23 36	28 19 24	D. Marsh	JAN	25 14 46	26 2 11
d March. $d$ $h$ $m$ .	FEB	27 12 20	27 7 4	March. $d. h. m.$	FEB	24 8 30	24 14 48
21 0 24	MAR	29 1 4	28 19 25	20 17 51	MAR	25 16 14	26 1 10
	APRIL	27 13 48	27 8 41		APRIL	21 4 58	21 9 41
	0	12 8 10	12 18 15		MAY .	23 17 42	28 17 8
	MAY .	27 2 32	26 23 0		June .	22 6 26	22 0 26
	June .	25 15 16	25 14 7		July.	21 19 10	21 8 48
	JULY.	25 4 0	25 5 31		Aug	20 7 54	19 19 0
	Aug	23 16 44	23 20 33		SEPT	18 20 38	18 8 8
	SEPT	22 5 28	22 10 45		Oct	18 9 22	18 0 0
	Oct	21 18 12	21 23 57		Nov	16 22 6	16 18 14
	0	5 12 34	4 23 26		DEC	16 10 50	16 18 29
	Nov	20 6 56	20 12 16				
	DEC	19 19 40	19 23 53	1858.	JAN	14 23 85	15 8 12
1855.	JAN	18 8 25	18 10 57	c.	FEB	(13 12 19	14 0 49
G.	FEB	16 21 9	16 21 28		0	28 6 41	28 0 82
21 6 13	MAR	18 9 53	18 5 37	20 23 40	MAR	15 1 8	15 14 40
	APRIL	16 22 37	16 17 45		APRIL	18 18 47	14 1 87
	0	( 1 16 59	1 6 28		MAY.	18 2 31	18 10 14
	MAY .	(16 11 21	16 4 31		June.	11 15 15	11 17 19
	June .	15 0 5	14 16 34		JULY.	11 8 59	11 0 0
	JULY.	14 12 49	14 6 16		Aug	(91648	9 7 20
	Aug	13 1 33	12 21 29		0	24 11 5	24 16 48
	SEPT	11 14 17	11 13 42		SEPT	8 5 27	7 16 26
	Ост	§11 3 1	11 6 4		Ост	7 18 11	7 4 11
	0	25 21 23	25 9 36		Nov	6 6 55	5 19 1
	Nov	9 15 45	9 21 51		DEC	5 19 89	5 12 40
	DEC	9 4 29	9 12 29				
1856.	JAN	7 17 13	8 1 41	1859.	JAN	4 8 28	481
F.E.	FEB.	6 5 57	6 13 21	В,	FEB	(2217	8 8 26
20 12 2	MAR.	6 18 41	6 23 34		0	17 15 29	17 18 15
	APRIL	(5 7 25	5 8 38	21 5 28	MAR	4 9 51	4 21 17
	0	20 1 47	20 11 17		APRIL	2 22 85	8 12 26
	MAY .	4 20 9	4 17 7		MAY.	2 11 19	3 0 28
	June.	3 8 53	3 1 49		~	(108	1 9 47
	JULY.	2 21 37	2 11 44		JUNE.	30 12 47	80 17 17
	Arra	( 1 10 21	31 23 39		JULY.	30 1 81	80 0 4
	AUG	(30 23 5	30 14 0		0	(13 19 53	18 19 5
	SEPT	29 11 49	29 6 30	1	Aug	28 14 15	28 7 18
	0	(14 6 11	14 1 0	į	SEPT	27 2 59	26 15 47
	Ост	(29 0 33	29 0 19	1	Oct	26 15 43	26 2 84
	Nov	27 13 17	27 18 17		Nov	25 4 27	24 16 6
	Dec	27 2 1	27 11 12		DEC	24 17 11	24 8 21
<del>!</del>							

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1860.		d. h. m.	d. h. m.	A.D. 1863.		d. h. m.	d. h. m.
A.G.	JAN	28 5 56	23 2 38	D.	JAN.	19 21 5	19 18 12
35	0	(7 0 18	7 5 6	March.	FEB	18 9 50	18 5 27
March. d. h. m.	FEB	21 18 40	21 21 37	d. h. m. 21 4 44	MAR.	19 22 34	19 17 10
20 11 17	MAR	22 7 24	22 15 50		APRIL	18 11 18	18 5 41
	APRIL	20 20 8	21 7 58		MAY.	18 0 2	17 19 10
	MAY .	20 8 52	20 21 21			(1 18 24	2 1 57
	June .	18 21 36	19 8 0		JUNE.	16 12 46	16 9 45
	July.	18 10 20	18 16 39		JULY.	16 1 30	16 1 3
	0	(2 4 42	1 19 57		Aug.	14 14 14	14 16 27
	Aug.	16 28 4	17 0 17		SEPT.	13 2 58	13 7 21
-	SEPT.	15 11 48	15 7 57		_	12 15 42	12 21 21
	Oct.		14 16 36		Oct	(11 4 26	11 10 23
	Nov.	15 0 82 18 18 16	13 2 55		Nov	25 22 48	25 11 20
	n				Dag	10 17 10	10 22 32
	DEC	18 2 0	12 15 16		DEC	10 17 10	10 22 52
1861.	JAN	11 14 44	11 5 46			1	
r.	FEB	10 8 29	9 22 6	1864.	JAN	9 5 54	9 9 58
20 17 6	MAR	11 16 18	11 15 32	C.B.	FEB	7 18 39	7 20 42
	APRIL	10 4 57	10 9 1	20 10 33	MAR	8 7 23	8 6 49
	MAY .	9 17 41	10 1 29		APRIL	6 20 7	6 16 38
	JUNE .	8 6 25	8 16 7		MAY.	6 8 51	6 2 43
1	JULY .	7 19 9	8 4 31		JUNE.	4 21 35	4 13 50
	Aug	6 7 58	6 14 58		JULY.	4 10 19	4 2 31
	SEPT	4 20 37	5 0 11		Aug.	2 23 3	2 17 0
	Oct	4 9 21	495		SEPT	1 11 47	1 8 54
	Nov.	2 22 5	2 18 25		Ост	5 1 0 31	1 1 31
		2 10 49	2 4 41		001	30 13 15	30 17 58
	DEC. O	17 5 11	17 10 39		Nov	29 1 59	29 9 30
		81 23 33	31 16 10		DEC	28 14 43	28 28 38
1000	T						
1862. x.	JAN.	80 12 17	80 4 55	1865.	JAN	27 3 27	27 12 17
AN .	FEB	(1 1 1	28 18 54	A.	FEB	25 16 11	25 22 57
20 22 55	MAR	12	80 9 59	20 16 21	MAR	27 4 55	27 8 22
		29 2 29	29 1 49		0	∫10 23 17	11 6 35
	APRIL	28 15 18	28 17 45		APRIL	25 17 39	25 16 50
	MAY .	(12 9 85	12 8 48		MAY .	25 6 23	25 1 5
1	0	12	27 9 6		June .	23 19 7	23 10 7
1	JUNE .	27 8 57	26 23 18		JULY .	23 7 51	22 20 51
	JULY.	26 16 41	25 11 54		Aug	21 20 85	21 9 57
	Aug	25 5 25 28 18 9	23 28 21		SEPT	20 9 19	20 1 32
	SEPT.		28 28 21		0	5 3 41	5 0 41
	Ocr	28 6 58	21 20 84		Oct	19 22 8	19 19 0
	Nov.	21 19 87	6 10 6		Nov	18 10 47	18 13 17
	0	6 18 59	21 7 15		DEC	17 23 31	18 7 4
	DEC	21 8 21	ZI . 10		1		1
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1866.		d. h. m.	d. h. m.	A.D. 1869.		d. h. m.	d. h. m.
G.	JAN	16 12 16	16 23 13	c.	Jan	(13 3 26	12 21 23
d. $h$ . $m$ .	FEB	15 1 0	15 13 3		0	27 21 48	28 4 10
20 23 10	MAR	(16 13 44	17 0 25	d. h. m.	FEB	11 16 10	11 16 2
	0	(31 8 6	31 6 39	20 15 37	MAR	13 4 54	13 10 39
	APRIL	15 2 28	15 9 38		April	11 17 38	12 3 49
	MAY .	14 15 12	14 17 20		MAY.	11 6 22	11 18 32
	June .	13 3 56	13 0 28		June .	9 19 6	10 6 31
	JULY.	12 16 40	12 8 1		JULY.	(9 7 50	9 16 8
	Aug	11 5 24	10 17 9		0	24 2 12	23 16 23
	SEPT	(9188	9 4 47		Aug	7 20 31	8 0 16
	0	(24 12 30	24 16 19		SEPT	6 9 18	6 7 58
	Oct	9 6 52	8 19 22		Ocr	5 22 2	5 16 13
	Nov	7 19 36	7 12 44		Nov	4 10 46	4 1 46
	DEC	7 8 20	7 7.47		DEC	3 23 30	3 13 9
100-	_			1870.	Jan	( 2 12 14	$\begin{pmatrix} 2 & 2 & 33 \\ 17 & 17 & 16 \end{pmatrix}$
1867. F.	JAN	5 21 4	6 3 2	В.	0	17 6 36	31 17 51
i	FEB	4 9 48	4 20 52		FEB	1 0 58	•••
21 3 59	Mar	5 22 32	6 12 9	20 21 26	MAR	2 13 42	2 10 36
	0	(20 16 54	20 11 11		A	1 2 26	1 3 56
	APRIL	4 11 16	5 0 27		APRIL	(30 15 10	30 20 53
İ	MAY.	4 0 0	4 10 1		MAY.	30 3 54	30 12 25
	JUNE.	2 12 44	2 17 39		June .	28 16 38	29 1 58
1	JULY.	2 1 28	2 0 21		0	\frac{13}{11} 0	13 0 57
· ·	4	(31 14 12 30 2 56	31 7 13 29 15 22		July .	28 5 22	28 13 28
	Aug	(13 21 18	29 <b>1</b> 5 22   14 2 55		Aug	26 18 6	26 23 24
l	SEPT	28 15 40	28 1 46		SEPT	25 6 50	25 8 36
1	Oct.	28 4 24	27 15 8		Ocr	24 19 34	24 17 51
ı	Nov.	26 17 8	26 7 31		Nov	23 8 18	23 3 47
1	DEC.	26 5 52	26 2 12		DEC	22 21 2	22 14 42
		20 9 02			0	6 15 24	6 23 44
1868.	T	04 10 07	04 01 40	1871.	JAN	21 9 47	21 2 45
E.D.	JAN Feb	24 18 37 23 7 21	24 21 46	Α.	FEB	19 22 31	19 15 55
			23 16 33	21 3 14	MAR	21 11 15	21 6 12
20 9 48	MAR.	23 20 5	24 9 4		APRIL	19 23 59	19 21 23
	APRIL	22 8 49	22 22 33		MAY .	19 12 43	19 13 9
	MAY . June .	21 21 33	22 9 7		June .	18 1 27	18 4 47
	July.	20 10 17	20 17 23		. 0	( 2 19 49	<b>,2</b> 15 56
	Aug.		20 0 25		JULY.	(17 14 11	17 19 37
	SEPT.	18 11 45 17 0 29	18 7 21 16 <b>1</b> 5 13		Aug	16 2 55	16 9 13
	OCT.	16 13 13	16 <b>1</b> 5 13   16 0 <b>4</b> 5		Sept	14 15 39	14 21 30
	Nov.	15 1 57	16 0 45		Ocr	14 4 23	14 8 48
	DEC.	14 14 41	14 15 7		Nov	12 17 7	12 19 36
	JEU	7.3 175 757	Tat # 9		DEC	12 5 51	12 6 21
	1	1		1		t	

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Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 1872. G.F. March. d. h. m. 20 9 3	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT	d. h. m. 10 18 35 9 7 20 9 20 4 8 8 48 5 7 21 32	d. h. m. 10 17 11 9 4 10 9 15 28 8 3 8 7 15 50 23 1 46 6 5 40 5 20 31 4 12 3 3 3 28 2 18 13 1 8 8 15 7 33	A.D. 1875. C. March. d. h. m. 21 2 30	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	d. h. m.  7 9 45 5 22 29 7 11 13 5 23 58 5 12 42 4 1 26 3 14 10 { 2 2 54 { 31 15 38 30 4 22 29 17 6 28 5 50 27 18 34	d. h. m. 7 19 84 6 10 40 7 28 12 6 9 19 5 17 30 4 0 40 8 7 47 1 15 57 31 2 15 29 15 24 29 7 84 28 2 2 27 21 80
1873. E. 20 14 52	DEC  JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OUT O NOV DEC	30 14 40 30 3 24 28 16 8 27 4 52 28 17 36 27 6 20 (12 0 42 26 19 4 25 7 48 24 20 32 28 9 16 21 22 0 21 10 44 (5 5 6 (19 28 28 19 12 12	80 20 50 80 8 48 28 19 52 27 6 8 28 15 49 27 1 25 12 18 42 26 11 40 24 28 19 24 12 49 28 4 7 21 20 40 21 18 85 4 17 58 20 5 56 19 21 2	1876. B.A. 20 8 19	JAN. FEB. O MAR. APRIL MAY JUNE JULY AUG. O SEPT. OCT. NOV. DEC.	8 18 48 18 13 10 18 1 54 16 14 88 16 8 22	18 O 5 17 12 O 16 2 58 15 20 89
1874. D. 20 20 41	JAN FEB	16 15 9	18 10 28 16 22 5 18 8 1 16 16 41 1 18 15 16 0 45 14 9 4 13 18 42 12 6 32 10 20 54 10 18 44 25 9 24 9 7 57 9 2 21	1877. G. 20 14 7	JAN. FEB. O MAR. APRIL MAY JUNE JULY AUG. O SEPT. OCT. NOV. DEC.	18 6 19 12 19 8 11 7 47 10 20 81 1 9 9 11 24 8 8	18 11 16 27 21 51 15 4 58 18 19 57 18 7 58 11 17 8 11 0 41 5 9 7 88 7 24 1 44 0 7 15 2 3 6 28 50 7 5 10 49

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.
A.D. 1878.		d. h. m.	d. h. m.	A.D. 1881.		d. h. m.	d. h. m.
F.	JAN	4 0 55	3 16 35	В.	JAN	30 4 49	30 3 5
	FEB	( 2 13 40	2 10 36	d. $d$ . $m$ .	FEB	28 17 33	28 13 58
March.	0	17 8 2	17 13 53	20 13 23	MAR.	30 6 17	30 1 7
d. h. m. 20 19 56	MAR.	4 2 24	4 5 14		APRIL	28 19 1	28 13 0
20 20 00	APRIL	2 15 8	2 23 7		MAY.	28 7 45	28 1 59
		(2 3 52	2 15 2		0	(12 2 7	12 9 23
	MAY .	31 16 36			JUNE.	26 20 29	26 16 15
	JUNE .	30 5 20	1 4 21 30 15 8		JULY.	26 9 13	26 7 80
	JULY.	29 18 4	29 23 59			24 21 57	24 23 9
		(13 12 26	13 2 41		Aug		28 14 85
	Aug.	28 6 48	28 7 57		SEPT	28 10 41 22 28 25	l
	SEPT.	1	1 .		Oct		
	OCT.	26 19 32 26 8 16	26 16 1		Nov	21 12 9	21 18 47
			26 1 0		~.0	6 6 81	5 19 80
1	Nov	24 21 0	24 11 33		DEC	21 0 53	21 7 21
1	DEC	24 9 44	23 23 56				
1879.	JAN	22 22 28	22 14 12	1882.	JAN	19 13 38	19 18 54
E.	FEB	21 11 12	21 6 5	Α.	FEB	18 2 22	18 5 88
21 1 45	MAR	22 23 56	22 22 58	20 19 12	MAR	19 15 6	19 15 12
į	APRIL	21 12 40	21 16 2		APRIL	18 3 50	18 0 80
	MAY .	21 1 24	21 8 12		MAY .	17 16 34	17 10 5
	JUNE.	19 14 8	19 22 48		JUNE.	16 5 18	15 20 45
	JULY.	19 2 52	19 11 24		JULY.	15 18 2	15 9 10
	Aug	17 15 36	17 22 14		Aug	14 6 46	18 28 85
	SEPT	16 4 20	16 7 56		SEPT	12 19 80	12 15 44
	Oct.	15 17 4	15 17 18		Oct	12 8 14	12 8 49
	Nov.	14 5 48	14 3 3		Nov.	10 20 58	11 1 50
	Dec.	(13 18 32	13 13 34		DEC.	10 9 42	10 17 82
	0	28 12 54	28 18 44				20 21 02
1000	_	1	,	1000	т	0.00.00	0 0 10
1880.	JAN	12 7 16	12 1 0	1883. <sub>G</sub> .	JAN	8 22 26	9 8 18
1	FEB	10 20 1	10 13 27	21 1 0	FEB	7 11 11	7 20 51
20 7 34	MAR	11 8 45	11 2 54	41 I U	MAR	8 23 55	9 7 80
	APRIL	9 21 29	9 17 23		APRIL	$\begin{cases} 7 & 12 & 39 \\ 99 & 7 & 7 \end{cases}$	7 16 84
	MAY .	9 10 13	9 8 39		O	(22 7 1	22 18 87
	June.	7 22 57	8 0 17		MAY .	7 1 28	7 0 87
	0	(22 17 19	22 16 17		JUNE.	5 14 7	5 8 80
[	JULY.	7 11 41	7 15 85	į	JULY.	5 2 51	4 17 13
	Апд	6 0 25	6 5 59	1	Aug	3 15 35	8 8 47
	SEPT	4 13 9	4 19 8		SEPT	2 4 19	1 16 54
	Oct	4 1 53	4 7 9	İ	0	(1 17 3	1 8 40
	Nov	2 14 37	2 18 26		Oct. 0	<b>16 11 25</b>	16 8 58
	n -	$\begin{bmatrix} 2 & 3 & 21 \\ 12 & 21 \end{bmatrix}$	2 5 23		3.7	31 5 47	31 2 30
	Dec. 0	16 21 43	16 18 2		Nov	29 18 31	29 21 10
		(31 16 5	31 16 14		DEC	29 7 15	29 15 17
	<u> </u>				1		

Vernal Equinox. Month. (O Full Ecl.) (O Full	u <b>e New</b> Moon. Full Ecl.)
Equinox. (O Full Ecl.) (O Full Ecl.) (C Full	m.con. Full Ecl.)
A.D. d. h. m. d. h. m. A.D. d. h. m. d.	
$a_{i}$ $b_{i}$ $a_{i}$ $b_{i}$ $a_{i}$ $b_{i}$ $a_{i$	
1884.	l. h. m.
Mayob Jan 27 19 59 28 7 38 B. Jan 24 11 9 24	5 <b>2</b> 8
March. d. h. m. FeB 26 8 48 26 21 27 March 0 5 8 5 31 8	12 57
	23 45
	18 1
	10 53
MAY . 21 22 55 25 0 58 . MAY . 22 14 5 23	1 30
	13 31
	23 20
07 40 7 04 0 00	23 10
3.4	
1 4 90 10 F 0 15	15 51
	10 23
DEC   17 16 3   17 15 42   DEC   15 7 13   14	21 52
1888. JAN (18 19 57 18	11 8
1885. Jan. 16 4 48 16 11 5 A.G. 0 28 14 19 29	1 51
D. Feb. 14 17 82 15 4 56 Feb. 12 8 41 12	2 2
	18 17
20 22 00   22330	11 6
APRIL 14 19 0 15 8 15 MAY . 10 22 54 11	<b>8 3</b> 8
MAY . 14 7 44 14 17 38 JUNE . 9 11 88 8	
June 12 20 28 13 1 9 July 1 9 0 22 9	
OCKE . LE ZO ZO ZO ZO	
SEP1.   3 10 40   0 20 1	
0 (22 0 2 22 20 20 )	
Oct. 8 28 24 8 9 86 Nov. 4 8 18 4	
Nov 7 12 8 6 28 7 DEC 8 16 2 8	3 12 87
DEC 7 0 52 6 15 81	1 28 88
1889. JAN. O \16 28 8 1	7 7 54
	11 27
C. FEB. 4 2 21 4 5 40 FEB	100
20 18 27 MAR. 5 15 5 6 0 16 1 (2 6 14 5	0 8
90 11 59 MAP	18 49
MAY . 8 16 88 4 5 57 APRIL 80 7 48 80	
	19 45
	3 11 14
July . Sou a st of months	
Aug. 29 19 29 29 15 4 Jruy 127 21 55 28	
	1
Shrt. 28 8 13 27 23 12 Aug. 26 10 39 26	1.
Oct 27 20 57 27 9 11 Sept 24 28 28 25	
Nov 26 9 41 25 21 81 Oct 24 12 7 24	
DEC 25 22 25 25 12 24 Nov 28 0 51 25	
DEC   22 18 85   25	15 17

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1890.		d. h. m.	d. h. m.	A.D. 1893.		d. h. m.	d. h. m.
March.	Jan	21 2 19	21 2 9	A. Wanah	JAN	17 17 29	18 3 54
d. h. m.	FEB	19 15 3	19 12 47	March. $d.$ $h.$ $m.$	FEB	16 6 13	16 19 3
20 17 42	MAR	21 3 47	20 23 34	20 11 9	MAR	17 18 57	18 7 27
	APRIL	19 16 31	19 10 44		APRIL	16 7 41	16 17 17
	MAY .	19 5 15	18 22 51		MAY.	15 20 25	16 1 14
	0	5 2 23 37	3 9 12		JUNE .	14 9 9	14 8 10
	June .	(17 17 59	<b>17</b> 12 16		July .	13 21 53	13 15 9
	July.	17 6 43	17 3 0		Aug	12 10 37	11 23 16
	Aug	15 19 27	15 18 38		SEPT	10 23 21	10 9 38
	SEPT	14 8 11	14 10 28		Ост	10 12 5	9 22 55
	Oct	18 20 55	14 1 49		Nov	9 0 49	8 15 14
	Nov	$\int 12 939$	12 16 14		DEC	8 13 33	8 9 53
	0	27 4 1	26 15 47				
1	DEC	11 22 23	12 5 33	1894.	JAN	7 2 17	7 5 28
1891.	JAN	10 11 7	10 17 42	G.	FEB	5 15 2	6 0 18
υ.	FEB	8 23 52	9 4 43	20 16 58	Mar.	(7 3 46	7 16 52
20 23 31	MAR.	10 12 36	10 14 40		0	21 22 8	21 16 44
1 20 20 02	APRIL	9 1 20	8 23 54		APRIL	5 16 30	6 6 27
	MAY.	(8144	8 9 0		MAY .	5 5 14	5 17 3
	0	{23 8 26	23 20 50		JUNE .	8 17 58	4 1 19
	June.	7 2 48	6 18 48		JULY .	3 6 42	3 8 14
	JULY.	6 15 32	6 6 6			( 1 19 26	1 14 56
	Aug	5 4 16	4 19 28		Aug	(31 8 10	30 22 28
	SEPT	3 17 0	3 10 54		0	(15 2 32	15 6 55
	Ocr	3 5 44	3 3 48		SEPT	29 20 54	29 7 55
	Nov	( 1 18 28	1 21 13		Ост	29 9 38	28 19 59
	0	16 12 50	16 2 30		Nov	27 22 22	27 11 8
	D	(1 7 12	1 14 6		DEC	27 11 6	27 4 44
	DEC	30 19 56	31 5 35				
1892.	JAN.	29 8 41	29 19 11	1895.	JAN	25 23 50	25 23 53
с.в.	FEB	27 21 25	28 6 41	F.	FEB	24 12 31	24 19 0
20 5 20	MAR.	28 10 9	28 16 20		0	(11 6 56	11 6 20
1 20 2 20	APRIL	26 22 53	27 0 37	20 22 46	MAR	26 1 18	26 12 29
	0	(11 17 15	12 1 4		APRIL	24 14 2	25 3 18
	MAY .	26 11 37	26 8 17		MAY .	24 2 46	24 15 8
	JUNE .	25 0 21	24 16 18		JUNE.	22 15 30	23 0 26
	JULY.	24 13 5	24 1 45		JULY.	22 4 14	22 8 6
	Aug	23 1 49	22 13 31		Aug	20 16 58	20 15 14
	SEPT	21 14 33	21 4 3		0	§ 4 11 20	4 8 30
	Ocr	21 3 17	20 21 5		SEPT	19 5 42	18 22 55
	0	( 4 21 39	4 17 57		Oct	18 18 26	18 8 2
	Nov	19 16 1	19 15 41		Nov	17 7 10	16 19 15
	DEC	19 4 45	19 10 26	1	DEC	16 19 54	16 8 52
	<u> </u>		1	11	1	1	

Mean Vernal Equinox.	Month.	Mean New Moon.	Frue New Moon. Full Ecl.)	Mean Vernal Equinox.	35	Mean New Moon. O Full Ecl.)	True New Moon. ) Full Ecl.)
A.D. 1896. E.D. March. d. h. m. 20 4 35	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	{13 21 23 28 15 45 14 10 7 12 22 51 12 11 35 11 0 19	d. h. m. 15 0 51 18 18 80 28 22 30 14 12 48 18 6 15 12 21 57 11 11 16 10 22 12 9 7 21 28 9 30 7 15 41 7 0 10 5 9 82 4 20 17	A.D. 1899. A. March. d. h. m. 20 22 2	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	10 12 32 12 1 16	d. h. m.  12 1 18  10 11 52  11 22 21  10 8 59  9 20 16  8 8 45  28 16 47  7 22 44  6 12 1  5 5 59  4 21 55  8 18 9  8 3 18  17 3 48
1897. c. 20 10 24	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG. SEFT. OCT. Nov. DEC.	181 9 8 29 21 52 29 10 36 27 28 20 26 12 4 26 0 48 24 18 82	3 8 38 1 22 35 3 13 58 2 6 18 1 22 52 31 14 50 30 5 26 29 18 18 28 5 35 26 15 48 26 1 41 24 11 49 23 22 31 8 2 48	1900. g. 21 3 51	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV DEC.	24 8 14 28 15 58 22 4 42	1 16 11 81 3 46  1 14 6 80 28 28 29 8 17 28 17 24 18 5 57 27 8 41 26 15 58 25 6 20 28 22 44 28 16 15 22 9 47 22 2 16
1898. B. 20 16 18	JAN. FEB. MAR. APRIL MAY JUNE O JULY AUG. SEPT. OCT. NOV. DEC. O	22 15 0 21 3 44 22 16 28 21 5 12 20 17 56 19 6 40 4 1 2 18 19 24 17 8 8	18 22 8 17 12 46 16 2 27 15 15 5 14 2 55 13 14 14		Jan. Feb.	20 6 10 18 18 54 20 7 88 18 20 22 18 9 6 16 21 50 16 10 84	20 15 54 19 0 86 18 8 17 16 15 51 16 0 21 14 10 48 12 28 58 3 12 15 57 3 27 17 48 11 10 4

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1902.		d. h. m.	d. h. m.	A.D. 1905.		d. h. m.	d. h. m.
E. Marah	JAN	9 14 58	9 23 31	A.	JAN	6 6 8	5 20 48
d. $d$ . $m$ .	Fев	8 3 43	8 15 58	,,,,	FEB	( 4 18 53	4 13 33
21 15 28	MAR	9 16 27	10 5 43	March. $d. h. m.$	0	19 13 15	19 21 40
	APRIL	§ 8 5 11	8 16 40	21 8 55	MAR	6 7 37	6 7 25
	0	\22 23 <b>3</b> 3	<b>2</b> 2 20 59		APRIL	4 20 21	5 1 14
	MAY.	7 17 55	8 1 19		MAY.	4 9 5	4 17 50
}	JUNE .	<b>6</b> 6 <b>3</b> 9	6 8 32		JUNE.	2 21 49	3 8 21
	JULY.	5 19 23	5 15 16		T	ſ 2 10 33	2 20 28
1	Aug	487	3 22 41		JULY.	(31 23 17	c 1 6 33
	SEPT	2 20 51	2 7 50		0	(15 <b>1</b> 7 <b>3</b> 9	15 6 8
	_	2 9 35	1 19 40		Aug	(30 12 1	(30 15 22
	Oct. O	17 3 57	17 8 21		SEPT	29 0 <b>4</b> 5	28 23 53
	37	(81 22 19	31 10 35		Ост	28 13 29	28 8 56
	Nov	30 11 3	30 4 17		Nov	27 2 13	26 19 6
1	Dec	29 23 47	29 23 40		DEC	26 14 57	26 6 <b>3</b> 9
				1906.	Jan.	25 3 41	24 19 42
1903.	Jan	28 12 32	28 19 6	G.	0	(822 3	9 10 20
D.	FEB	27 1 16	27 12 54		FEB	23 16 25	23 10 10
21 21 17	MAR	28 14 0	29 3 57	21 14 44	MAR	25 5 9	25 1 48
	. 0	$\int_{0.7}^{12} 822$	12 2 40		APRIL	23 17 58	23 18 5
	APRIL	27 2 44	27 15 54		MAY .	23 6 37	23 10 16
	MAY.	26 15 28	27 1 10		JUNE.	21 19 21	22 1 38
	JUNE.	25 4 12	25 8 36		July.	21 8 5	21 15 27
	JULY.	24 16 56	24 15 17		0	1 5 2 27	4 15 21
	Aug	23 5 40	22 22 21		Aug	19 20 49	20 3 41
	SEPT	21 18 24	21 6 49		SEPT	<b>1</b> 8 9 <b>3</b> 3	<b>18 14 3</b> 6
	Ост	21 7 8	6 17 50		Oct	17 22 17	18 0 50
	Nov.	19 19 52	20 17 36   19 7 14		Nov	16 11 1	16 11 2
	DEC.	19 8 36	19 7 14 18 23 41		DEC	15 23 45	15 21 31
	··	10 0 00	10 20 41	1907.	JAN	(14 12 29	14 8 32
1904.	T	17 01 00	17 10 10	F.	0	29 6 51	29 16 1
0.B.	JAN	17 21 20	17 18 13		FEB	13 1 13	12 20 4
21 3 6	FEB MAR	16 10 4 16 22 48	16 13 27	21 20 32	MAR.	14 13 58	14 8 16
-r 9 0	APRIL	15 11 32	17 7.47		APRIL	13 2 42	12 21 19
	MAY.	15 11 52	15 23 55		MAY .	12 15 26	12 11 22
	June .	18 18 0	15 13 11 13 28 39		June.	11 4 10	11 2 17
	JULY.	13 13 0	13 8 3		JULY.	10 16 54	10 17 40
	Aug	11 14 28	11 15 26		0	25 11 16	25 6 47
	SEPT.	10 3 12	9 22 53		Aug	9 5 38	9 8 51
	Oct	9 15 56	9 7 21		Sept	7 18 22	7 23 18
	Nov.	8 4 40	7 17 35		Ост	7 7 6	7 12 45
	Dec.	7 17 24	7 6 1		Nov	5 19 50	6 1 14
1					DEC	5 8 34	5 13 1
	·	I			i		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1908.		d. h. m.	d. h. m.	A.D. 1911.		d. h. m.	d. h. m.
E.D.	JAN	3 21 18	4 0 15	A.	JAN	30 1 12	30 12 9
d. h. m.	FEB	2 10 3	2 11 2	March.	FEB	28 13 56	•••
21 2 21	MAR	2 22 47	2 21 26	d. h. m. 21 19 48	MAR.	30 2 41	$\begin{cases} 1 & 3 & 17 \\ 30 & 15 & 32 \end{cases}$
	APRIL	1 11 81	5 1 7 39		APRIL	28 15 25	29 1 10
	May .	1 0 15	180 18 15		MAY .	28 4 9	28 8 51
	IVLAY .	<b>\30 12 5</b> 9	30 5 49		JUNE .	26 16 53	26 15 37
	June .	29 1 43	28 18 54		JULY .	26 5 87	25 22 32
	JULY.	28 14 27	28 9 32		Aug	24 18 21	24 6 43
	Aug	27 3 11	27 1 19		SEPT	23 7 5	22 17 10
	SEPT	25 15 55	25 17 35		Ост	22 19 49	22 6 37
	Ocr	25 4 39	25 9 31		Nov	21 8 33	20 23 5
	Nov	23 17 23	24 0 32		DEC	20 21 17	20 17 51
	DEC	23 6 7	23 14 15				
	_	04 40 54	00 0 00	1912.	JAN	19 10 1	19 13 28
1909. c.	JAN	21 18 51	22 2 33	G.F.	FEB	17 22 45	18 8 13
	FEB	20 7 35	20 13 26	21 1 37	MAR	18 11 29	19 0 40
<b>2</b> 1 8 <b>1</b> 0	MAR	21 20 19	21 23 4		0	5 2 5 51	2 0 40
l	APRIL	20 9 8	20 7 51		APRIL	17 0 13	17 14 6
	MAY .	19 21 47	19 16 28		MAY .	16 12 57	17 0 34
	O T	8 16 9 18 10 31	4 8 49 18 1 51		JUNE .	15 1 41	15 8 44
	JUNE.	17 23 15	17 12 54		JULY .	14 14 25	14 15 89
	Aug.	16 11 59	16 2 12		AυG	13 8 9	12 22 29
	SEPT.	15 0 48	14 17 46		SEPT	<b>∫11 15 58</b>	11 6 14
	Oct.	14 18 27	14 11 8		0	26 10 15	26 14 10
1	Nov.	(18 2 11	13 4 57		Oct	11 4 87	10 15 58
l	0	27 20 83	27 11 9		Nov	9 17 21	9 4 8
	DEC	12 14 55	12 22 19		Dec	965	8 19 15
1010	_	11 0 00	, , , , ,	1913.	Jan	7 18 49	7 12 49
1910. B.	JAN	11 8 89 9 16 24	11 14 8	E,	FEB	6 7 84	6 7 46
	FEB.		10 8 47 11 15 8	21 7 25	MAR.	(72018	8 2 86
21 18 59	MAR.	11 5 8 9 17 52	11 15 8	21 . 20	0	22 14 40	22 14 43
İ	APRIL	(9 6 36	9 8 25		APRIL	6 9 2	6 19 50
1	MAY.	24 0 58	24 7 46		MAY.	5 21 46	6 10 81
	June.	7 19 20	7 15 45		June .	4 10 30	4 22 18
	JULY.	7 8 4	6 28 81		JULY.	8 28 14	4 7 40
	Aug.	5 20 48	5 8 50		Aug	2 11 58	( 2 15 32
	SEPT.	4 9 82	8 20 37			(1 0 42	81 22 58
	Oct.	8 22 16	8 11 16		SEPT. O	15 19 4	15 15 22
	Nov.	(211 0	2 4 81			80 18 26	80 7 0
1	0	17 5 22	17 2 86		Oct	80 2 10	29 16 25
-		( 1 28 44	1 23 29		Nov	28 14 54	28 8 47
	DEC	81 12 28	81 18 82		DEC	28 8 88	27 17 24

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 1914. p. March. d. h. m. 21 13 14	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OOT NOV DEC	d. h. m.  26 16 23  25 5 7  (11 23 29  26 17 51  25 6 35  24 19 19  23 8 3  22 20 47  21 9 31  (5 3 53  19 22 15  19 10 59  17 23 43  17 12 27	d. h. m. 26 9 7 25 2 19 12 7 3 26 20 3 25 18 13 25 4 46 23 18 7 28 5 16 21 14 48 4 16 28 19 28 34 19 8 29 17 18 13 17 5 6	A.D. 1917. G.  March. d. h. m. 21 6 41	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC O	d. h. m.  { 8 13 10   23 7 33   21 20 17   23 9 1   21 21 45   21 10 29   19 23 13   { 4 17 35   19 11 57   18 0 41   16 13 25   16 2 9   14 14 53   { 14 3 87   28 21 59   12 16 21   14 17 5	d. h. m.  8 10 1 23 10 11 21 20 87 23 6 89 21 16 43 21 3 27 19 15 82 5 0 6 19 5 17 17 20 87 16 12 55 16 5 28 14 21 13 14 11 51 28 12 9 13 1 0
c. 21 19 8	MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	14 13 55 16 2 39 14 15 23 14 4 7 12 16 51 12 5 35 10 18 19 9 7 3 8 19 47 7 8 31 6 21 15	14 6 56 15 21 45 14 18 30 14 5 36 12 21 22 12 12 2 11 1 14 9 13 0 8 23 47 7 10 10 6 20 33	r. 21 12 30	FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEG	11 5 5 5 12 17 49 11 6 88 10 19 17 (9 8 1 1 2 23 8 20 45 7 9 20 5 22 18 5 10 57 8 23 41 8 12 25	8 10 86 6 22 89
1916. в.а. 21 0 52	JAN  FEB  MAR  APRIL  MAY .  JUNE .  O  JULY .  AUG  SEPT  OCT  NOV  DEC.	20 4 22 3 22 44 4 11 28 3 0 12 2 12 56 ( 1 1 40 ( 30 14 24 ( 15 8 46 ( 30 3 8 28 15 52 27 4 36 26 17 20	5 7 27 20 10 52 3 18 39 4 6 16 2 18 33 { 2 7 47 { 81 22 5 30 13 12 15 7 9 30 4 36 28 19 39 27 9 53 26 23 8 25 11 30 24 23 9	1919. E. 21 18 18	JAN  FEB  MAR  APRIL MAY .  JUNE .  JULY .  AUG  SEPT  ONOV  DEC	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	1 1 32 2 18 59 2 18 59 3 8 82 29 15 52 27 28 10 27 7 81 25 17 57 24 7 18 23 28 28 2 8 1 56 4 22 17 48

Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. Tull Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1920.		d. h. m.	d. h. m.	A.D. 1923.		d. h. m.	d. h. m.
D.C.	JAN	20 22 42	21 7 40	G.	JAN	17 13 52	17 5 12
March.	FEB.	19 11 26	20 0 10		FEB	16 2 36	15 21 32
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAR	20 0 10	20 13 48	March. $d. h. m.$	0	( 2 20 58	3 6 14
	APRIL	18 12 54	19 0 34	21 17 34	MAR	(17 15 20	17 14 55
	0	(3 7 16	3 4 0		APRIL	16 4 4	16 8 18
	MAY .	(18 1 38	18 8 59		MAY.	15 16 48	16 0 38
	June.	16 14 22	16 16 1		JUNE.	14 5 32	14 15 6
	July .	16 3 6	15 22 41		July.	13 18 16	14 3 24
	Aug	14 15 50	14 6 7		A.ug	$\int 12 \ 7 \ 0$	12 13 49
	Sept	13 4 34	12 15 23		0	27 1 22	26 13 1
	Ост	$\int 12 \ 17 \ 18$	12 3 20	,	SEPT	10 19 44	10 23 4
	0	27 11 40	27 16 32		Oct	10 8 28	10 8 3
	Nov	11 6 2	10 18 25		Nov.	8 21 12	8 17 29
	DEC	10 18 46	10 12 12		DEC	8 9 56	8 3 54
				1924.	JAN	6 22 40	6 15 27
1921.	JAN	9 7 30	9 7 37	F.E.	FEB	( 5 11 24	5 4 14
в.	FEB	7 20 14	8 2 58		0	20 5 46	20 18 41
21 5 56	MAR	9 8 59	9 20 40	20 28 28	MAR	6 0 9	5 18 12
	APRIL	7 21 43	8 11 35		APRIL	4 12 53	4 9 14
	0	22 16 5	22 10 15		MAY .	4 1 37	4 1 0
	MAY.	7 10 27	7 28 24		June .	2 14 21	2 16 52
	JUNE.	5 23 11	6 8 84 5 15 59		July .	2 8 5	
	JULY .	5 11 55 4 0 89	8 22 47	i		31 15 49	l .
	SEPT.	2 18 28	2 6 8		0	15 10 11	
	UMP I	2 2 7	1 14 45	1	Aug	\\\ 28 17 17	
	Ocr. O	16 20 29	17 1 26		Oct.	28 6 1	
	002.0	81 14 51	31 1 44		Nov.		-
	Nov.	80 8 85	29 15 28		Dre		
	DEC	29 16 19	29 7 52	100-	, ,	24 20 14	
				1925.		8 14 86	
1922.	JAN	28 5 4	28 2 12		FEB.	28 8 58	
Δ,	FEB.	26 17 48	26 21 7	21 5 11			1 100 100 100
21 11 45	MAR	28 6 82	28 15 10	ZI U II	APRIL		
	APRIL	26 19 16	27 7 7		MAY		4
	MAY .	26 8 0	26 20 18		June		
	JUNE .	24 20 44	25 6 50		JULY		
	JULY .	24 9 28	24 15 24		0		0 4 14 17
	Aug	22 22 12	22 28 4		Aug.	. 19 13 2	2 19 15 84
	SEPT	21 10 56	21 6 51	ii ii	SEPT.	. 18 2 (	18 6 80
	Ocr	20 23 40	20 15 89	11		. 17 14 5	1 B 1 4 2 2 2
	Nov.		19 2 6	11	Nov.	1 1	2 4 7 W W W W W W W W W W W W W W W W W W
	DEC	19 1 8	18 14 87		DEC.	. 15 16 1	15 21 49
			1	1	1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.  O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)
A.D. 1926.		d. h. m.	d. h. m.	A.D. 1929.		d. h. m.	d. h. m.
c.	Jan	14 5 2	14 9 12	F.	Jan	10 20 12	11 2 36
March.	FEB	12 17 46	12 19 51	d, $h$ , $m$ .	<b>Г</b> ЕВ	9 8 56	9 20 19
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	MAR.	14 6 30	14 5 53	21 4 27	MAR	10 21 40	11 11 24
21 11 0	APRIL	12 19 14	12 15 36		APRIL	9 10 24	9 23 28
	MAY.	12 7 58	12 1 39		MAY .	8 23 8	9 8 52
	JUNE.	10 20 42	10 12 44		June .	7 11 52	7 16 23
	JULY.	10 9 26	10 1 30		JULY.	7 0 36	6 23 <b>3</b>
		8 22 10	8 16 5		Aug.	5 13 20	5 5 59
	Aug	7 10 54	7 8 5		SEPT	4 2 4	3 14 16
	SEPT	6 23 38	7 0 48		Oct.	3 14 48	3 0 52
1	Oct.		5 17 19		Nov.	2 3 32	1 14 27
	Nov.		5 8 52	1	1101.	( 1 16 16	171
	DEC	5 1 6	9 6 52		DEC	31 5 0	31 1 48
1927.	JAN	3 13 50	3 22 57				
B,	FEB.	2 2 35	2 11 22	1903.	JAN	29 17 44	29 21 22
	MAR.	3 15 19	3 22 5	E.	FEB	28 6 29	28 16 0
21 16 49		2 4 3	2 7 21	21 10 16	MAR	29 19 13	30 8 18
	APRIL	(1 16 47	1 15 41	== == ==	0	(13 13 35	13 8 29
	MAY .	31 5 31	30 23 54		APRIL	128 7 57	28 21 36
	_	(14 23 53	15 10 44		MAY .	27 20 41	28 7 57
	_ 0	11 00 00 00	29 8 57		JUNE .	26 9 25	26 16 7
	JUNE .	00 0 00	28 19 47		JULY.	25 22 9	25 23 8
	JULY .	07 10 10	27 9 3		Aug.	04 40 70	24 6 8
	Aug.	00 0 0	26 0 48		SEPT.	30 00 05	22 14 8
	SEPT.		25 18 47		1	7 17 59	7 21 33
	Ocr.	. 25 21 11			OCT.	22 12 21	22 0 1
	Nov.	. 24 9 55	محمد ال		Nov.	1 -	20 12 26
	_ 0	9 4 17		Ш	_	100 40 40	20 3 31
	DEC.	, \23 22 39	24 6 34		DEC.	20 13 40	20 001
1000	Jan.	22 11 24	22 22 38	1931.	JAN.	. 19 2 34	18 20 56
1928.	FEB.	. 21 0 8		ID.	FEB.	17 15 18	17 15 34
20 22 38	~			21 16 4		19 4 2	19 10 4
20 22 38	APRII				0	( 2 22 24	2 22 56
	MAY				APRIL	. 117 16 46	18 3 3
		3 8 49			MAY		17 17 35
	JUNE	13		1	June		
	JULY	T   N		11	JULY	1	15 14 55
				11	Aug.		
	Aug.			II.	SEPT.		
	SEPT.	. 14 6 (		11	0	27 2 48	
	Oct.			II.	Ocr.	. 11 21 10	
	Nov.	1)		li .	3.7	. 10 9 54	1
	0		6 27 11 24	- 11	DEC.	. 9 22 38	
	DEC.	. 12 7 28	3 12 7 28	·	DEC.	. 0 44 00	0 12 20
	1		-	- 11			1

							J1 V L			,					
Mean Vernal Equinox.	Month.	Mean N Moor (O Full	1.	Tru M (O F	Coor	1.	v	lean ernal uinox.	Month.	Mea M (O F	lo <b>o</b> n		D.	ie N Ioor 'ull :	1.
A.D. 1932.		d. h.	m.	d.	ħ.	nz.		∖.D. 934.		d.	ħ.	n.	d.	$h_{\bullet}$	m.
C.B.	JAN	8 11	22	8	1	57		Gł.	JAN	(15	17	43	15	16	25
March.	FEB	7 0	6	6	17	17	N/	arch.	0	(30	12	5	30	18	51
d. h. m. 20 21 53	MAR.	(712	50	7	10	0		h. m.	FEB	14	6	27	14	3	21
	0	22 7	12	22	<b>1</b> 5	24	21	9 31	MAR	15	19	11	15	14	31
	APRIL	6 1	34	6	3	16			APRIL	14	7	<b>55</b>	14	2	12
	MAY .	5 14	18	5	20	4			MAY.	13	20	39	13	14	51
	June .	4 3	2	4	11	29			JUNE .	12	9	23	12	4	42
	July.	3 15	46	4	0	<b>55</b>			JULY.	111	22	7	11	19	37
		(2 4	80	2	12	21			0	126	16	29	26	14	37
	Aug	(31 17	14	31	22	18			Aug	10	<b>1</b> 0	51	10	11	9
	0	1 '	36	14	23	84			SEPT	8	23	85	9	2	<b>3</b> 6
	SEPT	30 €	58	30	7	33			Oct	8	12	19	8	17	25
	Ocr	29 18	42	29	17	4	1								
	Nov	28 7	26	28	2	58				ļ					
	DEC	27 20	10	27	13	58			1	ı			1		
1933.	JAN	26 8	3 55	26	2	8									
A.	FEB	24 2	89	1		18									
21 3 42	MAR	26 10	28	26	5	26									
0	APRIL	24 24	3 7	24	20	36									
l .	MAY .	24 1	1 51	24	12	17									
	JUNE .	28	35	23	3	51									
	JULY .	22 1	8 19	22	18	89	1								
	Aug.	21	2 8	21	. 8	13									
,	SEPT.	19 1	4 47	19	20	32	Į								
	Oct.	1	8 81	1.9	7	7 54									
	Nov.	17 1	6 15	17	18	3 47		48%							
	DEC.	. 17	4 58	17	' . E	5 84									
	I	I		1			1								
1															

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 572.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
March.	Jan	7 10 2	7 4 3	569.	JAN	5 1 12	5 11 45
d. $h.$ $m.$	<b>Г</b> ев	5 22 46	5 16 54	G.F. March.	0	19 19 34	19 15 42
27 14 0	MAR	<b>γ 7 11</b> 30	7 6 43	d, $h$ , $m$ .	FEB	<b>3 13 5</b> 6	3 22 36
1	0	22 5 52	22 16 34	27 7 26	MAR	4 2 40	4 7 43
	APRIL	6 0 14	5 21 29		APRIL	2 15 24	2 15 38
	May .	5 12 58	5 12 51		MAY .	(2 4 8	1 23 13
	June.	4 1 42	4 4 14		MAY.	(31 16 52	31 7 30
	JULY.	3 14 26	3 19 1		June.	30 5 36	29 17 32
	Aug	5 2 3 10	2 8 47		0	£14 23 58	15 5 53
	1200. 1	(81 15 54	31 21 26		JULY.	29 18 20	29 6 8
	0	<i>ξ</i> 15 10 16	14 20 39		Aug	28 7 4	27 21 31
	SEPT	30 4 38	30 9 15		SEPT	<b>26 19 48</b>	26 15 13
	Oct	29 17 22	29 20 32		Ocr	26 8 32	26 10 5
	Nov	28 6 6	28 7 32		Nov	24 21 16	25 4 40
	DEC	27 18 50	27 18 19		DEC	24 10 0	24 21 34
571.	Jan	26 7 35	26 4 56	568.	0	(8 4 23	7 21 31
B.	FEB	24 20 19	24 15 87	E.	Jan	{22 <b>22 4</b> 5	23 11 54
27 19 49	MAR.	26 9 3	26 2 52		FEB	21 11 29	21 23 27
2. 20 30	APRIL	24 21 47	24 15 15	27 13 15	MAR	23 0 13	23 8 34
	MAY.	24 10 31	24 5 1		APRIL	21 12 57	21 16 3
	June .	22 23 15	22 20 4		MAY .	21 1 41	20 22 50
,	JULY.	22 11 59	22 11 54		June.	519 14 25	19 6 2
	Aug	21 0 43	21 3 45		0	4 8 47	4 15 12
	SEPT	19 13 27	19 18 59		JULY.	19 3 9	18 14 45
	Ост	19 2 11	19 9 13		Aug	17 15 53	17 1 57
	Nov.	17 14 55	17 22 16		SEPT	16 4 37	15 16 12
	DEC	17 3 39	17 10 5		Oct	15 17 21	15 9 23
					Nov	14 6 5	<b>14</b> 4 30
570.	JAN	(15 16 24	15 20 44		DEC	18 18 49	14 0 2
Α.	0	(30 10 46	30 15 38	567.	JAN.	12 7 34	12 18 19
1	FEB	14 5 8	14 6 20	D.	FEB.	10 20 18	11 10 1
28 1 38	MAR	15 17 52	15 15 21	27 19 4	MAR.	12 9 2	12 22 38
	APRIL	14 6 36	14 0 27		APRIL	10 21 46	11 '8 24
	MAY .	13 19 20	13 10 31		MAY.	10 10 30	10 16 7
	JUNE .	12 8 4	11 22 23		June .	8 23 14	8 22 53
	JULY .	£11 20 48	11 12 23		JULY.	8 11 58	8 5 44
	0	26 15 10	26 14 39		Aug	7 0 42	6 13 47
	Aug	10 9 32	10 4 23		SEPT	5 13 26	5 0 0
	SEPT	8 22 16	8 21 39		Oct	5 2 10	4 13 1
	Ocr	8 11 0	8 15 8		Nov.	( 8 14 54	<b>3 4</b> 55
1	Nov.	6 23 44	7 7 46		0	18 9 16	18 14 39
	DEC	6 12 28	6 22 47		DEC	3 8 88	2 23 10
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C.	. ,	d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
566. c.	JAN	{ 1 16 22 { 31 5 6	1 18 26 31 13 10	563. F.	Jan Feb	27 20 16 26 9 0	27 14 29 26 3 31
March.	FEB.	(51 5 0	31 13 10	March. $d$ , $h$ , $m$ .	0	(13 3 22	26 3 31 13 15 46
d. h. m. 28 0 53	Mar	{ 1 17 50 { 31 6 34	2 5 52 31 19 45	27 18 19	Mar	27 21 44 26 10 28	27 17 31 26 8 25
	APRIL	29 19 18	30 6 45		MAY.	25 23 12	25 23 47
	0	(14 13 40	14 5 25		June .	24 11 56	24 15 2
	MAY.	<b>29 8 2</b>	29 15 27		JULY.	24 0 40	24 5 33
	June.	27 20 46	27 22 54		Aug	22 13 24	22 19 2
	JULY.	27 9 30	27 6 9		٥ _	6 7 46	5 18 0
	Aug	25 22 14	25 14 16		SEPT	21 2 8	21 7 32
	SEPT	24 10 58 23 23 42	24 0 1 23 11 58		Oct Nov	20 <b>14</b> 52 <b>19 3</b> 36	20 19 17 19 6 34
	Ост	(7 18 4	8 2 28		DEC	18 16 20	18 17 26
	O Nov	22 12 26	22 2 18		_		
	DEC	22 1 10	21 18 47	562. E.	JAN	17 5 5	17 3 58
				E.	FEB	15 17 49	15 14 20
565. B.A.	JAN	20 13 55	20 12 40	00 0 0	O Mar	2 12 11	3 1 42 17 0 57
27 6 42	FEB Mar	19 2 39 19 15 23	19 6 42 19 23 43	28 0 8	APRIL	(17 6 83 15 19 17	17 0 57 15 12 26
21 0 42	APRIL	18 4 7	18 14 44		MAY.	15 8 1	15 1 17
	0	( 2 22 29	2 15 41		June.	13 20 45	13 15 40
	MAY .	17 16 51	18 3 19	·	JULY.	13 9 29	13 7 15
1	June.	16 5 35	16 13 40		Aug	(11 22 13	11 28 32
	JULY.	15 18 19	15 22 33		0	<b>26 16 35</b>	26 10 26
	Aug	14 7 3	14 6 56		SEPT	10 10 57	10 15 16
	Sept	12 19 47	12 15 43		Oct	9 23 41	10 6 20
·	Ocr	$\int 12 8 31$	12 1 32		Nov	8 12 25	8 20 14
	0	27 2 53	27 7 16		DEC	8 1 9	8 8 46
	Nov	10 21 15	10 12 46	561.	JAN	6 13 54	6 20 0
	DEC	10 9 59	10 1 35	D.C	FEB	5 2 38	5 5 53
564. G.	Jan	8 22 44	8 15 55	07 7 77	0	(19 21 0	20 4 19
27 12 31	FEB	7 11 28	7 7 80	27 5 57	MAR	5 15 22	5 14 55
4, 12, 31	MAR	9 0 12	8 23 51		APRIL	4 4 6	3 23 38 3 8 54
	APRIL May.	7 12 56 7 1 40	7 16 15 7 7 50		MAY . June .	3 16 50 2 5 34	3 8 5 <del>4</del> 1 19 37
	JUNE .	5 14 24	5 21 58	,	SOME.	(1 18 18	1 8 29
	JULY.	5 3 8	5 10 24		JULY.	$\begin{cases} 31 & 7 & 2 \end{cases}$	30 23 36
	Aug.	3 15 52	3 21 23		0	(15 1 24	14 22 33
	SEPT	2 4 36	2 7 34		Aug	29 19 46	29 16 <b>3</b> 0
	Oom	§ 1 17 20	1 17 35		SEPT	28 8 30	28 10 15
	Ост.	(31 6 4	81 8 55		Oct	27 21 14	28 3 41
,	Nov.	29 ·18 48	29 14 50		Nov	26 9 58	26 19 47
	DEC	29 7 32	29 2 19		DEC	25 22 42	26 9 51

Mean Vernal Equinox.	Month	Mean New Moon. O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C.		d. h. m.	d. h. m.	B.C. 557.		d. h. m.	d. h. m.
560. в.	JAN.	24 11 26	24 21 41	F.E.	JAN	22 2 35	22 7 48
March.	FEB.	23 0 10	23 7 29	d. h. m.	FEB	20 15 20	21 1 32
d. h. m.		24 12 54	21 15 43	27 5 12	MAR	21 4 4	21 16 49
27 11 46	MAR.	23 1 38	22 23 11		APRIL	19 16 48	20 5 11
	APRIL	22 14 22	22 6 51		MAY .	19 5 32	19 14 56
1	MAY .	21 3 6	20 15 49		0	( 2 23 54	2 15 8
	JUNE .	20 15 50	20 3 2		June .	(17 18 16	17 22 58
	July .		18 17 6		JULY.	17 7 0	17 6 18
	Aug	19 4 34 17 17 18	17 9 52		Aug.	15 19 44	15 14 3
	SEPT		17 4 29		SEPT	14 8 28	13 23 3
	Oct.	<b>-</b> . •	15 23 33		Ост.	13 21 12	13 9 57
1	Nov	15 18 46			Nov.	12 9 56	11 23 7
l	DEC	15 7 30	15 17 31 29 19 8		DEC.	11 22 40	11 14 29
1	0	30 ,1 52	29 19 8		DEC		
	_	13 20 15	14 9 14	556.	JAN	10 11 25	10 7 35
559.	JAN		12 22 4	D.	FEB	9 0 9	9 1 23
<b>A.</b>	FEB	12 8 59	14 8 13		MAR.	10 12 53	10 18 57
27 17 35	1 .	13 21 43	12 16 18	27 11 1	APRIL	(9 1 37	9 10 56
1	APRIL	12 10 27			0	23 19 59	23 19 15
	MAY .	11 23 11	11 23 13		MAY .	8 14 21	9 0 44
	June .	(10 11 55	10 6 1		JUNE .	7 3 5	7 12 14
	0	25 6 17	25 11 50		_	6 15 49	6 21 54
	JULY.	10 0 39	9 13 50		JULY .	5 4 33	5 6 39
	Aug	8 13 23	7 23 45		Aug.	3 17 17	3 15 20
	Sept	7 2 7	6 12 31		SEPT.	(3 6 1	3 0 46
ĺ	Ост.	6 14 51	6 4 22		Ост	18 0 23	18 2 1
	Nov	5 3 35	4 22 45			1 18 45	( 1 11 22
	DEC	§ 4 16 19	4 18 19		Nov	(1 7 29	3 00 00 01
	0	19 10 41	19 9 3		DEC	80 20 18	
			0.10.05			(50 20 15	30 12 31
558.	JAN.	3 5 3	3 13 25	555.	JAN.	29 8 57	29 8 81
G.	FEB	1 17 47	3 20 32	C.	FEB.	27 21 41	27 19 17
27 23 2	1 .	3 6 31	1	27 16 50		29 10 25	
	APRIL	1 19 15		27 10 50	1	(13 4 47	
1	MAY .	1 7 59			APRIL	27 28 9	T
		(50 20 45	- مدندا				
	_ 0	(14 15 5			MAY .		
	June .	30.00.44	29 5 57		JUNE		
	July .		28 13 23		JULY	1	
	Aug.		26 22 31		Aug.		
	SEPT	1 -1 1	25 10 11		SEPT.	1	1
	Ост.	1			0	7 9 1	
	Nov.	1 .			T	. \22 8 8	
	0	8 19 29	1		Nov.	. 20 16 17	
	DEC.	. \23 13 51	23 12 44		DEC.	. 20 5	1 20 0 54
	I	1	1	Н		I	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
B.C. 554. B.	_	d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
March.	JAN	18 17 46	18 12 33	551.	JAN	(15 8 55	15 20 18
d. h. m.	FEB	17 6 30	17 0 51	E. March.	0	(30 8 17	29 23 28
27 22 39	MAR	18 19 14	18 14 2	d. h. m.	FEB	13 21 40	14 6 58
	0	∫ 2 13 36	3 0 16	27 16 5	MAR	15 10 24	15 15 44
	APRIL	17 7 58	17 4 15		APRIL	13 23 8	13 23 19
	MAY .	16 20 42	<b>16 1</b> 9 18		MAY.	13 11 52	13 6 36
	JUNE.	15 9 26	15 10 43		June .	12 0 36	11 14 42
	July.	14 22 10	15 1 48		JULY.	ſ11 13 20	11 0 39
	Aug	13 10 54	13 16 5		0	26 7 42	26 13 20
	SEPT	∫11 23 38	12 5 21		Aug	10 2 4	9 13 18
	0	26 18 0	26 4 35		SEPT	8 14 48	8 4 52
	Oct.	11 12 22	11 17 44		Oct	8 3 32	7 22 51
	Nov	10 1 6	10 5 25		Nov	6 16 16	6 18 2
	DEC	9 13 50	9 16 30	,	DEC	6 5 0	6 12 51
					_		
553.	Jan	8 2 35	8 3 8	550.	JAN	<b>4 17 45</b>	5 5 50
A.G.	FEB	6 15 19	6 13 21	D.	0	19 12 7	19 5 52
27 4 28	MAR.,	7 4 3	6 23 30	27 21 54	FEB	3 6 29	3 20 5
	APRIL	5 16 47	5 10 12	21 21 01	MAR.	4 19 13	5 7 26
	MAY.	5 5 31	4 22 5		ABRIL	3 7 57	3 16 20
	June.	3 18 15	3 11 34		MAY .	2 20 41	2 23 36
	JULY.	8 6 59	3 2 37		June .	$\begin{cases} 1 & 9 & 25 \\ 20 & 20 & 0 \end{cases}$	1 6 15
	Aug.,	ſ 1 19 <b>4</b> 3	1 18 43			(30 22 9	30 13 26
	1100.	31 8 27	31 11 3		O T	15 16 81	15 22 6
	SEPT	29 21 11	30 2 55	, i	JULY .	130 10 53 28 23 37	29 22 14 28 9 84
	Ocr	29 9 55	29 17 40		SEPT.	27 12 21	26 23 59
	Nov	27 22 39	28 7 3		Oct	27 1 5	26 17 16
	DEC	27 11 23	27 18 56		Nov.	25 13 49	25 12 29
					DEC.	25 2 33	25 8 1
552. F.	JAN	26 0 7	26 5 21			20 2 00	
F.	0	§ 9 18 29	9 23 5	549.	JAN	23 15 17	24 2 10
97 10 15	FEB	₹24 12 51	24 14 35	C.B.	FEB	22 4 1	22 17 44
27 10 17	MAR.	26 1 35	25 23 8	27 3 43	Mar	22 16 45	28 6 11
	APRIL	24 14 19	24 7 48		APRIL	21 5 29	21 15 51
	MAY.	24 3 3	23 17 30		MAY .	20 18 13	20 28 32
'	June.	22 15 47	22 5 9		June .	19 6 57	19 6 19
	JULY.	22 4 31	21 19 10		JULY.	18 19 41	18 18 20
	, 0	5 22 53	5 22 27		Aug	17 8 25	16 21 88
	Aug	(20 17 15	20 11 23		SEPT	15 21 9	15 8 4
	SEPT	19 5 59	19 5 4		Oct	15 9 53	14 21 12
	Ост	18 18 43	18 23 1		Nov	$\int 13.22 \ 37$	13 18 7
	Nov	17 7 27	17 16 6		0	28 16 59	28 23 33
	DEC	16 20 11	17 7 21		DEC	13 11 21	18 7 12
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 548.	_	d. h. m.	d. h. m.	B.C. 545.		d. h. m.	d. h. m.
March.	JAN	12 0 5	12 2 13	E.D. March.	JAN	9 15 16	9 10 59
d. h. m.	FEB	10 12 50	10 20 38	d. $h.$ $m.$	FEB	8 4 0	7 22 40
27 9 32	MAR	12 1 34	12 13 8	27 2 58	MAR	8 16 44	8 11 4
	APRIL	10 14 18	11 2 55		0	(23 11 6	23 23 30
	MAY .	ſ10 3 2	10 13 55		APRIL	7 5 28	7 0 30
	0	24 21 24	24 12 14		MAY .	6 18 12	6 14 59
	June .	8 15 46	8 22 45		JUNE .	5 6 56	5 6 14
	JULY.	8 4 30	8 6 25		July.	4 19 40	4 21 38
Ì	Avg	6 17 14	6 14 1		Aug	3 8 24	3 12 36
	SEPT	5 5 58	4 22 28		SEPT	(1218	2 2 41
1	Ост	4 18 42	4 8 29		0	16 15 30	16 1 42
	Nov	(3 7 26	2 20 33		_	(1 9 52	1 15 46
	0	18 1 48	18 10 59		Ост	30 22 36	31 4 1
	DEC	2 20 10	2 10 47		Nov	29 11 20	29 15 30
					DEC	29 0 4	29 2 19
547.	JAN	1 8 55	1 2 57				
G.	O AM.	30 21 39	30 20 19	544.	JAN	27 12 48	27 12 32
	FEB			C.	FEB	26 1 32	25 22 25
27 15 21	MAR	ſ 1 10 28	1 13 54		0	$\int 12 \ 19 \ 54$	13 9 5
2. 10 21	MAR	30 23 7	31 6 36	27 8 47	MAR	27 14 16	27 8 29
	APRIL	29 11 51	29 21 31		APRIL	26 3 0	25 19 26
	0	∫14 6 13	13 22 58		MAY.	25 15 44	25 7 56
	MAY .	129 0 35	29 10 12		JUNE.	24 4 28	23 22 12
	June.	27 13 19	27 20 51		JULY.	23 17 12	28 13 55
	JULY.	27 2 3	27 6 9		Avg	22 5 56	22 6 27
	Aug.	25 14 47	25 14 59		0	6 0 18	5 14 17
	SEPT	24 3 31	24 0 11		SEPT	20 18 40	20 22 56
	Oct	23 16 15	23 10 17		Oct	20 7 24	20 14 34
	0	7 10 37	7 15 17		Nov	18 20 8	19 4 53
	Nov	22 4 59	21 21 36		DEC	18 8 52	18 17 34
	DEC	21 17 43	21 10 12	543.	JAN	16 21 37	17 4 39
F40	_	00 -		в.	FEB	15 10 21	15 14 17
546. F.	JAN.	20 6 27	20 0 4		0	ſ 2 4 43	2 11 31
1	FEB	18 19 11	18 15 4	27 14 36	MAR	16 23 5	16 22 52
27 21 10	MAR	20 7 55	20 6 51		APRIL	15 11 49	15 7 9
	APRIL	18 20 39	18 22 52		MAY .	15 0 33	14 16 1
	MAY .	18 9 23	18 14 21		JUNE .	13 13 17	13 2 30
	JUNE.	16 22 7	17 4 39		JULY .	13 2 1	12 15 16
	JULY.	16 10 51	16 17 28		AυG	(11 14 45	11 6 31
	Ang.	14 23 35	15 5 0		0	$\begin{cases} 26 & 9 & 7 \end{cases}$	26 6 37
	SEPT	13 12 19	13 15 44		SEPT	10 3 29	9 23 45
	Ост.	13 1 3	13 2 13		Ост	9 16 13	9 17 58
	Nov.	11 13 47	11 12 50		Nov	8 4 57	8 11 50
}	DEC.	11 2 31	10 23 44		Dec	7 17 41	8 4 15
	f	1				1	

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Mean Vernal	35	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.	Month.	(O Full Ecl.)	(O Full Ecl.)	Equinox.	monu.	(O Full Ecl.)	(O Full Ecl.)
B.C.		d. h. m.	d. h. m.			d. h. m.	d. h. m.
542.	<b>T</b>	6 6 6 6	6 10 0=	B.C. 539.	JAN	2 21 36	2 20 38
March.	JAN	6 6 26	6 18 25	D.	FEB	1 10 20	1 15 22
d. h. m.	FEB	4 19 10	5 6 6	March.	MAR.	2 23 4	3 8 50
27 20 25	MAR	6 7 54	6 15 37 4 23 30	d. h. m. 27 13 51		1 11 48	1 23 55
	APRIL	4 20 38		21 10 01	APRIL	(1 0 32	1 12 16
1	MAY .	4 9 22			MAY .	30 13 16	30 22 8
	JUNE .	2 22 6	2 14 7		_	(14 7 38	13 21 52
	July.	2 10 50	1 22 59		June.	29 2 0	29 6 23
		(31 23 34	31 10 14		1	28 14 44	28 14 3
	Aug	30 12 18	30 0 25		JULY.	27 8 28	26 22 9
	SEPT	29 1 2	28 17 25	1	Aug	25 16 12	25 7 28
	Oct.	28 13 46	28 12 19	}	SEPT	25 16 12	24 18 34
	Nov	27 2 30	27 7 37		Oct		23 7 42
	DEC	26 15 14	27 1 42		Nov.		1
		(10 0.90	10 3 41		DEC	23 6 24	22 22 48
E41	0	(10 9 36		538.	JAN	21 19 8	21 15 25
541. g.f.	JAN	(25 3 58	25 17 23	C.	FEB	20 7 52	20 8 47
1	FEB.	23 16 42	24 6 5	27 19 40	MAR	21 20 36	22 1 52
27 2 14	MAR	24 5 26	24 16 1		APRIL	20 9 20	20 17 40
	APRIL	22 18 10	22 23 53		0	(5 3 42	4 22 37
	MAY.	22 6 54	22 6 38		MAY .	19 22 4	20 7 31
1	JUNE.	20 19 38	20 13 26		JUNE .	18 10 48	18 19 14
	0	5 14 0	5 18 33		JULY.	17 23 32	18 5 18
	JULY.	20 8 22	19 21 20	1	Aug	16 12 16	16 14 30
	Aug	18 21 6	18 7 22		SEPT.	15 1 0	14 28 40
	SEPT	17 9 50	16 20 17		Oct	(14 18 44	14 9 27
	Oct	16 22 34	16 12 16		0	29 8 6	29 9 52
	Nov	15 11 18	15 6 44 15 2 16		Nov	18 2 28	12 20 13
	DEC	$\begin{cases} 15 & 0 & 2 \\ 00 & 10 & 04 \end{cases}$			DEC	12 15 12	12 8 7
	0	29 18 24	29 17 55	537.	JAN.	11 3 57	10 21 11
540.	JAN	13 12 47	13 21 16	B.A.	FEB.	9 16 41	9 11 21
E.	FEB	12 1 31	12 14 10	27 1 29	MAR.	10 5 25	10 2 30
27 8 3	MAR.	13 14 15	14 4 6	2. 1.20	APRIL	(8 18 9	1
	APRIL	12 2 59	12 15 2		APRIL	28 12 81	
( ·	MAY.	11 15 43	11 23 33		MAY.	8 6 53	8 9 59
	JUNE .	$(10 \ 4 \ 27)$	10 6 42		June .	6 19 87	7 0 57
	0	24 22 49	24 19 38		JULY.	6 8 21	6 14 41
	July .	9 17 11	9 13 33		Aug.	4 21 5	5 8 5
	Aug.	8 5 55	7 21 12		SEPT.	8 9 49	8 14 26
	SEPT.	6 18 39	6 6 35		1 _	(2 22 33	1
	Ост	6 7 23	5 18 25		Oct	17 16 55	1
1	Nov.	4 20 7	4 8 59	-		1 11 17	1
	DEC.	(4 8 51	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	!	Nov	(1 0 1	3 00 00 45
	0	19 3 13	19 9 42		DEC	80 12 45	1 -
						100 12 10	00 0 22

						1	1 .
Mean Vernal	Month.	Mean New	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.	monen.	Moon. (O Full Ecl.)		Equinox.	111011111		(O Full Ecl.)
B.C. 536.		d. h. m.	d. h. m.			d. h. m.	d. h. m.
G.	Jan	29 1 30	28 20 56	B.C. 533.	JAN	26 16 40	27 4 46
March.	FEB	27 14 14	28 20 30	D.C.	_	(10 11 2	10 7 9
d. h. m. 27 7 18	MAR.	29 2 58	28 21 15	March.	О <b>Гев.</b> .	25 5 24	25 15 11
	O .	(12 21 20	13 7 49	d. h. m. 27 0 44	MAR.	25 18 8	25 23 38
	APRIL	27 15 42	27 10 59	21 0 44	APRIL	24 6 52	24 6 55
	MAY .	27 4 26	27 10 33		MAY.	23 19 36	23 13 58
	JUNE .	25 17 10	25 17 13		JUNE .	22 8 20	21 21 57
	JULY.	25 5 54	25 8 38		JULY.	21 21 4	21 7 55
	Aug.	23 18 38	23 23 27			( 5 15 26	5 20 53
	SEPT.	22 7 22	22 13 22		Aug.	20 9 48	19 20 38
	0	(7 1 44	6 12 40		SEPT.	18 22 32	18 12 22
	Oct	21 20 6	22 2 17		Ост.	18 11 16	18 6 36
	Nov	20 8 50	20 14 17		Nov.	17 0 0	17 2 0
	DEC	19 21 34	20 1 27		DEC.	16 12 44	16 20 57
					220		20 20 01
535.	JAN	18 10 18	18 11 51	532.	JAN	(15 1 28	15 13 56
F.	FEB.	16 23 2	16 21 37	в.	0	1 29 19 50	29 14 6
27 13 7	MAR.	18 11 46	18 7 15		FEB	13 14 12	14 4 6
	APRIL	17 0 30	16 17 25	27 6 33	MAR	15 2 56	15 15 16
	MAY.	16 13 14	16 4 53		APRIL	13 15 40	13 23 56
	JUNE.	15 1 58	14 18 9		MAY .	13 4 24	13 7 4
	JULY .	14 14 42	14 9 13		JUNE.	11 17 8	11 13 42
	Aug	13 3 26	13 1 37		JULY.	(11 5 52	10 20 56
	SEPT	11 16 10	11 18 29		0	26 0 14	26 5 6
	Ост	11 4 54	11 10 55		Aug	9 18 36	9 5 51
	Nov	9 17 38	10 2 10		SEPT	8 7 20	7 17 21
	DEC	9 6 22	9 15 48		Ост	7 20 4	7 7 54
					Nov	6 8 48	6 1 16
534.	JAN	7 19 7	8 3 41		DEC	5 21 32	5 20 26
E.	FEB.	(6 7 51	6 13 51	E 01	т.	4 40 47	
	0	21 2 13	21 6 23	531.	JAN	4 10 17	4 15 58
27 18 56	Mar	7 20 35	7 22 43	27 12 22	FEB	2 23 1	3 9 54
	APRIL	6 9 19	6 6 49	41 14 44	MAR.	4 11 45	5 1 17
	MAY .	5 22 3	5 15 5		APRIL MAN	3 0 29	3 13 37
	JUNE.	4 10 47	4 0 31	l	MAY.	2 13 13	2 23 18
	JULY.	3 23 31	3 12 1		JUNE .	30 14 41	1 6 55 30 13 51
	Aug	5 2 12 15	(224		JULY.	30 3 25	
	0	17 6 37	17 6 24		Aug	28 16 9	
	SEPT	∫ 1 0 59	31 18 32		SEPT	27 4 58	28 5 39 26 16 17
		\30 13 43	30 12 36		Oct	26 17 37	26 5 32
	Oct	30 2 27	30 7 1		Nov.	25 6 21	24 21 28
	Nov.	28 15 11	29 0 27		0	(10 0 43	10 8 25
	DEC	28 3 55	28 15 52		DEC.	24 19 5	24 15 18
I						C-2 20 0	-x 10 19

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.) (	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. Tull Ecl.)
B.C. 530.		d. h. m.	d. h. m.	B.C. 527.		d. h. m.	d. h. m.
G.	JAN	23 7 49	23 9 53	C.	JAN	19 22 59	19 19 34
d, $h$ , $m$ .	FEB	21 20 33	22 3 57	March. $d. h. m.$	FEB	18 11 43	18 6 43
27 18 11	MAR	23 9 17	23 20 13	27 11 37	MAR	20 0 27	19 18 31
ı İ	APRIL	21 22 1	22 9 56		0	3 18 49	4 7 2
	MAY .	21 10 45	21 21 0		APRIL	18 13 11	18 7 23
	0	(5 5 7	4 19 4		MAY .	18 1 55	17 21 31
	June .	19 23 29	20 6 3		JUNE .	16 14 39	16 12 40
	JULY.	19 12 13	19 14 1		July.	16 3 23	16 4 17
	Aug	18 0 57	17 21 59		Aug	14 16 7	14 19 43
	SEPT	16 13 41	16 6 48		SEPT	(13 4 51	13 10 25
	Oct	16 2 25	15 17 4		0	27 23 13	27 9 48
	Nov	(14 15 9	14 5 12		Oct	12 17 35	13 0 6
	0	29 9 31	29 19 28		Nov	11 6 19	11 12 46
	DEC	14 3 53	13 19 14		DEC	10 19 4	11 0 27
529.	Jan	12 16 38	12 10 59	526.	T	9 7 48	9 11 8
F.E.	FEB.	11 5 22	11 3 50	B.	JAN	7 20 32	7 21 0
27 0 0	MAR.	11 18 6	11 20 57	27 17 26	FEB.	(9 9 16	9 6 24
2. 0 0	APRIL	10 6 50	10 13 21	27 17 20	MAR.	24 3 38	24 16 21
1	MAY.	( 9 19 34	10 4 11		A nnvr	7 22 0	7 15 55
	0	21 13 56	24 6 13		APRIL MAY	7 10 44	7 2 26
	JUNE.	8 8 18	8 17 3		June .	F 00 00	5 14 37
	JULY.	7 21 2	8 4 8		JULY .	F 40 40	5 4 47
1	Aug.	6 9 46	6 13 49		Aug.	4 0 50	3 20 42
	SEPT	4 22 30	4 23 9		SEPT.		2 13 41
	Ocr	4 11 14	4 8 45		O O	17 8 2	16 22 35
	Nov.	( 2 28 58	2 19 7		"	(2 2 24	2 6 43
	0	17 18 20	17 23 20		Oct.	81 15 8	31 22 53
	_	2 12 42	5 2 6 27		Nov.	30 3 52	80 13 33
	DEC		31 18 47		DEC.	00 16 96	30 2 20
		(1 1 26				•	28 13 15
528.	JAN	80 14 11	30 8 9	525.	JAN.	00 10 5	26 22 32
D.	FEB	(00 14 11	28 22 32	A.G.	FEB.		
	LED.	(1 2 55	20 22 02		0	$\begin{cases} 12 & 12 & 27 \\ 97 & 6 & 49 \end{cases}$	
27 5 49	MAR	80 15 89	30 13 47	26 23 15		07 40 60	1
	APRIL	29 4 28	29 5 27		APRII	07 0 17	1
		(13 22 45	13 22 33		MAY	00 01 1	
•	MAY.	28 17 7	28 20 50		JUNE	. 00 0 45	1
	June .	27 5 51	27 11 21	1	JULY	01 00 00	
	JULY.	26 18 35	27 0 38		Aug.	5 16 51	. 1
	Aug.	25 7 19	25 12 45		SEPT.		
	SEPT.	1	24 0 2		0-	10 00 57	
	Oct.	23 8 47	23 10 58		Nov.	10 10 41	
	Nov.	21 21 31	21 21 49			10 1 05	
	DEC.	21 10 15	21 8 40		DEC.	. 18 1 20	10 11 00

				011111			
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.
B.C. 524. F.		d. h. m.	d. h. m.	B.C. 521.		d. h. m.	d. h. m.
March.	JAN	16 14 9	17 2 50	C.B.	JAN	14 5 19	14 4 25
a. h. m.	FEB	15 2 53	15 14 21	March. $d. h. m.$	FEB.	12 18 3	12 22 47
27 5 4	MAR	16 15 37	16 23 34	26 22 30	MAR.	13 6 47	13 15 57
	APRIL	15 4 21	15 7 10		APRIL	11 19 31	12 6 54
1	MAY .	14 17 5	14 14 7	ļ	MAY.	11 8 15	11 19 16
	JUNE.	13 5 49	12 21 26		June .	9 20 59	10 5 18
	JULY.	12 18 33	12 6 15		0	24 15 21	24 4 38
	Aug.	11 7 17	10 17 33		JULY .	9 9 43	9 18 51
	SEPT	9 20 1	9 7 54	·	Aug.	7 22 27	7 21 58
	Oct	9 8 45	9 1 6		SEPT.	6 11 11	6 6 22
	Nov.	7 21 29	7 20 12		OCT.	1 '	f .
	DEC.	7 10 13	7 15 38		Nov.	5 28 55	5 16 1
<b></b> -		, 20 20	. 20 00		DEC.	4 12 39 4 1 23	4 8 16
523.	JAN.	6 5 22 58	6 9 48		DEC	4 1 25	3 16 18
E.	0	20 17 20	20 12 9	520.	JAN	2 14 8	(274
	FEB	4 11 42	5 1 24	A.	OAN.	214 0	31 28 11
27 10 53	MAR.	6 0 26	6 13 56	,	FEB	1.252	••• •••
	APRIL	4 13 10	4 23 40	27 4 19	MAR	2 15 36	2 16 2
	MAY.	4 1 54	4 7 23			(1 4 20	1 8 42
	JUNE.	2 14 38	2 14 6		APRIL	30 17 4	
		(2 3 22	1 20 55		MAY.	30 5 48	{ 1 0 19 80 14 14
•	July O	16 21 44	17 1 20		JUNE.	28 18 32	29 2 16
		31 16 6	31 4 56		JULY.	28 7 16	28 12 47
	Aug.	30 4 50	29 15 9		Aug.	26 20 0	26 22 29
* *	SEPT.	28 17 34	28 4 14		SEPT.	25 8 44	25 8 7
J	Oct.	28 6 18	27 20 19		Ост.	24 21 28	24 18 15
	Nov.	26 19 2	26 14 43		0	(8 15 50	8 17 50
	DEC.	26 7 46	26 10 10		Nov.	23 10 12	23 5 8
- 1		. 20	20 10 10		DEC.	22 22 56	22 16 52
522.	0 1	(10 2 8	10 2 43		220.	oo	22 10 02
<b>1</b> D.	JAN.	24 20 31	25 5 0	519.	JAN.	21 11 41	21 5 30
	FEB.	23 9 15	23 21 43	G.	FEB	20 0 25	19 19 5
27 16 42	MAR.	24 21 59	25 11 31	27 10 8	MAR.	21 13 9	21 9 37
	APRIL	23 10 43	23 22 21		APRIL	20 1 53	20 0 55
į	MAY .		23 6 54		0	( 4 20 15	4 22 56
Í	JUNE.		21 14 9		MAY .	19 14 37	19 16 26
		6 6 33	6 2 11	. 1	June .	18 3 21	18 7 31
		<u>.</u>	20 21 13		JULY.	17 16 5	17 21 38
	. ! '		19 5 9		Aug.	16 4 49	16 10 34
1			17 14 48		SEPT.	14 17 33	14 22 81
	_ 1		17 2 47		_	(14 6 17	14 9 50
			15 17 21		- 1	29 0 39	28 17 8
			15 10 11		Nov.		12 20 52
. 1		1	30 18 33		DEC.		12 7 44
	( )			1	-		• 111
					- 1		

Ween		35. 37.					<del></del>
Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.		(O Full Ecl.)	(O Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
B.C.							
518.		d. h. m.	d. h. m.	D 0		d. h. m.	d. h. m.
F.	JAN	10 20 29	10 18 28	B.C. 515.	JAN	7 11 39	8 0 16
March. $d. h. m.$	FEB	9 9 13	9 5 18	В.	FEB.	6 0 23	6 13 2
27 15 57	MAR	10 21 57	10 16 20	March.	0	20 18 45	20 14 42
1	APRIL	( 9 10 41	9 4 21	d. h. m. 27 9 23	MAR.	7 13 7	7 23 13
	0	24 5 8	24 15 15	2. 0 20	APRIL	6 1 51	6 7 23
1	MAY .	8 23 25	8 17 38		MAY .	5 14 35	5 14 25
1	June .	7 12 9	7 8 13		JUNE .	4 3 19	3 21 20
	JULY.	7 0 53	6 23 45		JULY.	3 16 3	3 5 15
	Aug	5 13 37	5 15 33		JULI .	2 4 47	1 15 14
	SEPT	4 2 21	4 6 57		Aug. 0	16 23 9	17 4 31
	Oct	6 8 15 5	3 21 28		22.0G. O	81 17 81	31 4 6
	0	18 9 27	17 20 52		SEPT	30 6 15	29 20 2
	Nov	2 3 49	2 10 53		OCT.	29 18 59	29 14 26
		r 1 16 83	1 23 10	1	Nov.	28 7 43	28 9 58
	DEC	81 5 17	31 10 20		DEC.	27 20 27	28 4 58
		102 0 2.	02 20 20		DEC	21.20 21	20 2 00
517.	JAN	00 70 0	00 00 00	514.	JAN	26 9 12	26 21 56
E.D.	FEB.	29 18 2	29 20 28	Δ.	0	(10 8 34	9 22 15
26 21 46	MAR.	28 6 46	28 5 48		FEB	24 21 56	25 11 57
20 21 30	APRIL	28 19 80	28 14 54	27 15 12	MAR.	26 10 40	26 22 57
	MAY.	27 8 14	27 0 86		APRIL	24 23 24	25 7 28
	June .	26 20 58	26 <b>1</b> 1 <b>4</b> 2   25 0 <b>4</b> 7		MAY.	24 12 8	24 14 31
	JULY.	24 22 26			June .	23 0 52	22 21 10
	Aug.		24 15 57		JULY.	22 13 36	22 4 32
	SEPT.	23 11 10 21 28 54	23 8 40		0	6 7 58	6 12 9
	Ocr.	21 12 83	21 19 1		Aug	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	20 13 38
	Nov.	20 1 22	20 10 41		SEPT	19 15 4	19 1 19
1	DEC.	19 14 6	20 10 41		Oor.	19 3 48	18 15 58
	10	19 19 0	20 0 31		Nov	17 16 32	17 9 20
E10	_	10 0 70	10 10 10	,	DEC	17 5 16	17 4 24
518. c.	JAN	18 2 50	18 12 19				
-	FEB.	16 15 84	16 22 12	513.	JAN	15 18 0	15 23 38
27 8 84	Mo	8 9 56	8 18 83	G.F.	FEB	14 6 44	14 17 27
21 0 04	MAR.	18 4 18	18 6 41	26 21 1	MAR	14.19 28	15 8 40
	APRIL	16 17 2	16 14 24		APRIL	18 8 12	18 20 54
1	MAY .	16 5 46	15 22 20		MAY .	12 20 56	18 6 29
	JUNE .	14 18 80	14 7 88		June .	11 9 40	11 14 18
	JULY .	14 7 14	13 18 58		JULY.	10 22 24	10 21 26
-	Avg	{12 19 58	12 . 9 7		Aug	9 11 8	9 4 57
1	0	11 9 40	27 14 26		SEPT	7 28 52	7 13 48
1	SEPT	11 8 42	11 1 50		Ocr	7 12 36	7 0 40
	Ocr	10 21 26	10 20 16		Nov	6 1 20	5 13 58
	Nov.	9 10 10 8 22 54	9 15 4		DEC	5 14 4	5 5 39
}	DEC	0 22 04	9 8 45		0	20 8 26	20 17 12
1		'			I	1	!

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.
B.C. 512.		d. h. m.	d. h. m.	B.C.	-	d. h. m.	d. h. m.
E	JAN	4 2 49	3 23 10	509.	JAN	1 17 59	1 17 32
d. h. m.	FEB.	2 15 33	2 17 26	March.	JAN	31 6 43	31 4 3
27 2 49	MAR.	4 4 17	4 11 10	d. h. m.	FEB	29 19 27	29 14 39
	APRIL	2 17 1	3 3 12	26 20 16	MAR	30 8 11	30 1 52
		(2 5 45	2 16 51		0	§14 2 33	14 14 27
	MAY .	31 18 29	$ _{(1 \ 4 \ 4)}$		APRIL	28 20 55	28 14 14
		(15 12 51	15 1 57		MAY .	28 9 39	28 4 3
	JUNE .	30 7 13	(30 13 22		JUNE.	26 22 23	26 19 10
	JULY .	29 19 57	29 21 43		July.	26 11 7	26 11 4
	Aug	28 8 41	28 6 5		Aug	24 23 51	25 3 0
	SEPT	26 21 25	26 15 17		SEPT	23 12 35	23 18 18
	Ост	26 10 9	26 1 48		0	8 6 57	7 18 3
	Nov	24 22 53	24 13 56		Ост	23 1 19	23 8 33
	0	( 9 17 15	10 3 59		Nov	21 14 3	21 21 34
	DEC	24 11 37	24 3 42		DEC	21 2 47	21 9 20
	_			508.	JAN	19 15 32	19 19 51
511.	JAN	<b>23</b> 0 22	22 18 58	G.	FEB	18 4 16	18 5 20
D.	FEB	21 13 6	21 11 15	27 2 5	MAR	19 17 0	19 14 15
27 8 38	MAR.	23 1 50	23 3 53		0	( 3 11 22	8 28 27
	APRIL	21 14 34	21 20 0		APRIL	18 5 44	17 28 18
	MAY .	21 3 18	21 10 49		MAY .	17 18 28	17 9 25
	-0	5 4 21 40	4 13 30		June .	16 7 12	15 21 21
	JUNE .	(19 16 2	19 23 54		JULY .	15 19 56	15 11 30
	JULY.	19 4 46	19 11 20		Aug	14 8 40	14 8 89
1	Aug.	17 17 30	17 21 35		SEPT	(12 21 24	12 21 2
	SEPT.	16 6 14	16 7 26		0	27 15 46	27 7 1
	Oct	15 18 58	15 17 28		Oct	12 10 8	12 14 35
	Nov.	14 7 42	14 4 4		Nov	10 22 52	11 7 14
	-	13 20 26	29 7 24		DEC	10 11 36	10 22 10
	DEC	19 20 26	13 15 20	507.	JAN	9 0 20	9 10 58
510.	JAN	12 9 10	12 3 18	F.	FEB	7 13 4	7 21 41
C.	FEB	10 21 54	10 16 7	27 7 54	MAR	(9 1 48	9 6 88
27 14 27	MAR	12 10 38	12 5 53		0	23 20 10	24 1 80
	APRIL	10 23 22	10 20 35		APRIL	7 14 32	7 14 26
	MAY .	(10 12 6	10 11 55		MAY .	7 8 16	6 21 59
	0	25 6 28	25 6 0		JUNE .	5 16 0	5 6 18
	JUNE .	9 0 50	9 3 17		JULY .	5 4 44	4 16 28
	JULY.	8 13 34	8 18 4		Avg	3 17 28	8 5 15
	Aug	7 2 18	7 7 52		SEPT	(2 6 12	1 20 50
	SEPT	5 15 2	5 20 34		0	(17 0 34	16 28 11
	Ост	5 3 46	5 8 26		Ост.	1 18 56	1 14 42
	Nov	3 16 30	3 19 47		OUT.	(31 7 40	81 9 89
	DEC	3 5 14	3 6 47		Nov	29 20 24	80 4 12
				1	DEC	29 9 8	29 20 59

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)(C	Frne New Moon. ),Full Ecl.)
B.C. 506. E. March. d. h. m. 27 13 42	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG	d. h. m. 27 21 58 26 10 37 27 28 21 26 12 5 26 0 49 24 13 38 24 2 17 22 15 1	d. h. m. 28 11 7 26 22 28 28 7 25 26 14 46 25 21 32 24 4 48 28 13 39 22 1 3 20 15 38	B.C. 503. A. March. d. h. m. 27 7 9	O JAN FEB MAR APRIL MAY . JUNE . O JULY .	24 13 3 23 1 47 24 14 31	d. h. m.  10 3 18  24 12 9  23 6 5  24 22 55  23 13 45  23 2 11  21 12 30  5 11 31  20 21 23
505. D.C.	SEPT OCT NOV DEC JAN	21 3 45 20 16 29 19 5 13 18 17 57 17 6 42 ( 1 1 4	20 15 38 20 8 54 19 4 7 18 23 38 (17 17 46 31 20 31	502	Aug Sept Oct Nov Dec	19 6 11 17 18 55 17 7 89 15 20 23 15 9 7	19 5 51 17 14 46 17 0 42 15 12 4 15 0 56
26 19 31	FEB  MAR  APRIL  MAY .  JUNE .  O  AUG  SEPT  OCT  Nov  DEC.	15 19 26 16 8 10 14 20 54 14 9 38 12 22 22 (12 11 6 27 5 28 10 23 50 9 12 34 9 1 18	27 8 12 10 12 42 8 23 7 8 12 20 7 4 25	502. g. 27 12 58	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov O	12 10 35 13 23 19 12 12 3 12 0 47 10 13 31 10 2 15 8 14 59 7 3 43 6 16 27	12 6 48 13 23 5 12 15 23 12 15 23 12 6 52 10 20 55 10 9 19 8 20 21 7 6 35 6 16 42 5 3 7 20 1 47 4 14 4
504. B. 27 1 20	O FEB.	4 5 42 3 18 26 2 7 16 1 19 5 16 14 1 31 8 3 29 21 2 28 10 27 22 5 26 11 3	2 20 11 24 4 12 36 6 5 5 2 4 18 45 6 4 5 35 0 2 14 12 4 1 21 39 6 16 8 47 8 31 4 59 2 29 13 14 6 27 23 9 0 27 11 17 4 26 1 45		JAN. FEB. MAR. APRIL O MAY JUNE JULY AUG. SEPT. OCT. O Nov.	3 6 40 1 19 24 2 8 8 81 20 52 30 9 36 (15 8 58 29 22 20 28 11 4 27 28 48 26 12 32	3 1 34 1 13 42 2 2 40 3 1 16 37 30 7 30 15 6 26 29 22 51 28 14 6 3 28 4 38 2 26 18 9 6 25* 6 42 24 18 31 2 8 1 3 4 23 5 49

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl	True New Moon.
B.C. 500.		d. h. m.	d. h. m.		-	d. h. m.	_
D.	JAN.	21 4 13	21 3 6	B.C. 497.	T		
d. $h$ . $m$ .	FEB.	19 16 57	19 13 23	457. A.G.	JAN FEB	18 19 28	
27 0 35	MAR.	21 5 41	20 23 56	March.	1	17 8 7	17 21 11
	APRIL	19 18 25	19 11 24	d. h. m. 26 18 2	MAR.	17 20 51	
	0	( 4 12 47	4 22 36		APRIL	16 9 35	16 15 4
	MAY .	19 7 9	19 0 17		MAY.	15 22 19	15 21 55
	JUNE .	17 19 53	17 14 43		JUNE .	14 11 3	14 4 43
	JULY .	17 8 37	17 6 24		JULY .	13 23 47	13 12 40
-	Aug	15 21 21	15 22 36		Aug	(12 12 31	11 22 46
	SEPT	14 10 5	14 14 34		0	27 6 53	27 12 18
	Ocr	∫13 22 <b>4</b> 9	14 5 41		SEPT	11 1 15	10 11 46
	0	28 17 11	28 5 14		Oct	10 13 59	10 3 50
	Nov	12 11 33	12 19 34		Nov	9 2 43	8 22 21
	DEC	12 0 17	12 8 2		DEC	8 15 27	8 17 57
499.	JAN	10 13 1	10 19 6	496. F.	JAN	7 4 11	7 12 56
С.	FEB	9 1 45	9 4 55	F.	FEB	$\int 5 16 55$	6 5 46
27 6 24	MAR.	10 14 29	10 13 50	00 00 54	0	(20 11 17	20 6 16
	APRIL	9 3 13	8 22 28	26 23 51	MAR	7 5 39	7 19 38
1	MAY .	8 15 57	8 7 43		APRIL	5 18 23	6 6 29
	JUNE.	7 4 41	6 18 31		MAY .	5 7 7	5 14 54
	July.	6 17 25	6 7 31		JUNE.	3 19 51 3 8 35	3 21 56
	AUG SEPT	5 6 9	4 22 47		JULY .		8 4 42
	Oct.	3 18 53 3 7 37	3 15 51		Aug. O	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1 12 14 16 19 19
	Nov.	1 20 21	3 9 41 2 3 9		1100.0	31 10 3	30 21 33
	1107.	(1 9 5	2 3 9 1 19 11		SEPT	29 22 47	29 9 25
	DEC	30 21 49	31 9 9		Ост.	29 11 31	29 0 8
		100 22 20	01 0 0		Nov	28 0 15	27 17 27
498.	JAN.	29 10 34	29 20 50		DEC	27 12 59	27 12 19
В.	FEB.	27 23 18	28 6 27	467	_		·
	0	(14 17 40	14 20 35	495. E.	JAN	26 1 44	26 7 18
27 12 13	MAR.	29 12 2	29 14 33		FEB	24 14 28	25 0 51
	APRIL	28 0 46	27 21 56	27 5 40	MAR	26 3 12	26 15 54
	MAY .	27 13 30	27 5 36		APRIL	24 15 56	25 4 4
	JUNE .	26 2 14	25 14 39		MAY .	24 4 40	24 13 43
	JULY.	25 14 58	25 2 3		JUNE . JULY .	22 17 24 22 6 8	22 21 42
·	Aug	24 3 42	23 16 19		AUG.	22 6 8 20 18 52	22 5 6
•.	0	∫ 7 22 4	7 22 39	1	SEPT.	19 7 36	20 12 57   18 22 8
	SEPT	122 16 26	22 9 17		Oct.	18 20 20	18 22 8 18 9 12
	Ост	22 5 10	22 4 2	İ	Nov.	17 9 4	16 22 30
	Nov	20 17 54	20 23 7			(16 21 48	16 13 58
	DEC	20 .6 <b>3</b> 8	20 17 1		14	31 16 11	
						-	
							1

Mean Vernal Equinox.	Month.	Man New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C.		d. h. m.	d. h. m.	B.C. 491.		d. h. m.	d. h. m.
494.	0	ſ	1 1 58	. G	JAN	12 1 42	12 2 17
D.	JAN	15 10 33	15 7 4	March. $d.$ $h.$ $m.$	FEB	10 14 26	10 12 24
March. $d.$ $h.$ $m.$	FEB	13 23 17	14 0 52	27 4 55	MAR	12 3 10	11 22 28
27 11 28	MAR	15 12 1	15 18 12		APRIL	(10 15 54	10 9 7
	APRIL	14 0 45	14 10 2		0	25 10 16	25 21 47
	MAY .	13 13 29	13 23 41		May .	10 4 38	9 21 1
	JUNE .	ſ12 2 13	12 11 6		JUNE .	8 17 22	8 10 35
	0	\26 20 <b>3</b> 5	26 8 54		JULY.	8 6 6	8 1 43
	JULY.	11 14 57	11 20 45		Aug	6 18 50	6 17 55
	Aug	10 3 41	10 5 32		SEPT	5 7 34	5 10 21
	SEPT	8 16 25	8 14 20		Oct	ſ 4 20 18	5 2 15
	Ocr	8 5 9	7 23 54		0	19 14 40	19 2 25
	Nov	6 17 53	6 10 38		Nov.	3 9 2	3 17 2
	DEC.	(6 6 37	5 22 40		DEC	2 21 46	3 6 22
	0	21 0 59	21 12 22			ſ 1 10 31	1 18 9
				490.	JAN	30 23 15	31 4 26
493.	JAN	4 19 21	4 12 7	F.	Ti-m	(30 25 15	01 4 20
C.B.	FEB	3 8 5	3 2 50		FEB	( 1 11 59	1 13 32
26 17 17	MAR	3 20 49	3 18 32	27 10 44	MAR	31 0 43	30 21 59
	APRIL	2 9 33	2 10 41			(14 19 5	15 6 24
	MAY .	§ 1 22 17	2 2 33		4 2222	29 13 27	29 6 37
	Julia .	(31 11 1	31 17 24		MAY.	29 2 11	28 16 22
	0	$\int 15 \ 5 \ 23$	<b>14</b> 20 48			27 14 55	27 4 8
	JUNE .	29 28 45	30 6 46		JUNE .	1	26 18 17
	JULY .	29 12 29	29 18 50		JULY .	27 3 39 25 16 23	25 10 42
	Aug	28 1 13	28 5 29		A.UG.	25 16 25	24 4 29
	SEPT	26 13 57	26 15 51		SEPT	8 23 29	1
	Ост	26 2 41	26 2 16		0	23 17 51	l
	Nov	24 15 25	24 13 0		Oct	22 6 35	22 15 35
	0	9 9 47	9 15 26		Nov	21 19 19	22 6 44
	DEC	24 4 9	24 0 9		DEC	21 10 10	
492.	JAN.	22 16 54	22 11 46	489.	JAN	20 8 4	20 19 32
Α.	FEB.	21 5 38	20 23 59	E.D.	FEB	18 20 48	19 6 Q
. 26 23 6	MAR.	22 18 22	22 13 8	26 16 33	MAR	19 9 32	19 14 37
0 _0	APRIL	21 7 6	21 3 19		0	3 3 54	1
	MAY .	20 19 50	20 18 23		APRIL	17 22 16	1
	0	( 4 14 12	4 13 26		MAY .	17.11 0	1
	JUNE .	19 8 34	19 9 47		JUNE .	15 23 44	15 13 29
	JULY .	18 21 18	19 0 53		JULY.	15 12 28	14 23 35
	Aug.	17 10 2	17 15 13		Aug	14. 1 <b>1</b> 2	1
	SEPT.	15 22 46	16 4 32		SEPT	12 13 56	1
	Oct.	15 11 30	15 16 58	H	0	127 8 18	1
	Nov.	14 0 14	14 4 39	II .	Oct	12 2 40	
	DEC.	13 12 58	13 15 45	1	Nov.	10 15 24	1
	DEC	10 12 00		11	DEC	10 4 8	10 12 23

1							
Mean		Mean New	True New	Mean	3543	Mean New	True New
Vernal Equinox.	Month.	Moon. (○ Full Ecl.)	Moon. (○ Full Ecl.)	Vernal Equinox.	Month.	Moon. (O Full Ecl.)	
B.C.		-7 1	J h m			d. h. m.	d. h. m.
488.		d. h. m.	d. h. m.	B.C.			
C.	JAN	8 16 52	9 5 13	485.	JAN	[6 8 2	6 2 23
$\begin{array}{c c} \mathbf{March.} \\ \mathbf{d.} \ h. \ m. \end{array}$	FEB	7 5 36	7 19 16	G.F.	0	21 2 24	21 11 53
26 22 21	MAR	8 18 20	9 6 24	March. $d. h. m.$	FEB	4 20 46	4 19 42
	APRIL	774	7 15 7	26 15 48	MAR	5 9 30	5 13 11
1	May	6 19 48	6 22 17		APRIL	3 22 14	4 5 45
1	June .	5 8 32	5 4 56		MAY .	3 10 58	3 20 31
	July.	4 21 16	4 12 12		JUNE .	1 23 42	294
	Aug.	3 10 0	2 21 9			( 1 12 26	1 19 41
	_ `	1 22 44	(1 8 42		July O	16 6 48	15 18 28
	SEPT	(1 11 28	$\left  \left\{ \begin{array}{cccccccccccccccccccccccccccccccccccc$		3011	31 1 10	31 5 0
	Ocr	12			A	29 13 54	29 13 56
	37	(31 0 12	30 16 49		Aug	1	27 28 15
	Nov.	29 12 56	29 12 6		SEPT		
ŀ	DEC	29 1 40	29 7 34		Ост.	27 15 22	
					Nov	26 4 6	25 20 58
487.	JAN.	27 14 25	28 1 35		DEC	25 16 50	25 9 31
В.	0	(11 8 47	11 4 45		_		00 00 00
į	FEB	126 3 9	26 16 55	484.	JAN	24 5 35	28 28 28
27 4 10	MAR	27 15 53	28 5 9	E.	FEB	22 18 19	22 14 20
1	APRIL	26 4 37	26 14 39	26 21 37	MAR	24 7 3	24 6 4
	MAY .	25 17 21	25 22 14		APRIL	22 19 47	22 22 0
1	JUNE .	24 6 5	24 5 2		MAY.	22 8 31	22 13 24
	JULY .	23 18 49	23 12 9		June.	20 21 15	21 3 39
	0	(7 13 11	7 15 10		JULY.	20 9 59	20 16 28
1	Aug	22 7 33	21 20 35		Aug	18 22 43	19 4 1
	SEPT.	20 20 17	20 7 13		SEPT	17 11 27	17 14 50
1	Oct.	20 9 1	19 20 34		Oct	17 0 11	17 1 23
	Nov.	18 21 45	18 12 38		Nov	ſ15 12 55	15 12 4
1	DEC.	18 10 29	18 6 46		0	130 717	<b>3</b> 0 9 <b>4</b> 7
1	DEC	10 10 20	10 0 10		DEC	15 1 89	14 22 59
	_	(10.00 5 :	, ,_				
486.	JAN	16 23 14	17 1 45	483.	JAN	13 14 24	18 10 12
<b>A.</b>	_ 0	31 17 36	31 20 0	D.	FEB	12 3 8	11 21 49
	FEB	15 11 58	15 20 1	27 3 26	MAR	18 15 52	18 10 10
27 9 59	MAR.	17 0 42	17 12 19		APRIL	12 4 36	11 28 34
	APRIL	15 13 26	16 1 53		MAY .	(11 17 20	11 14 8
	MAY .	15 2 10	15 12 44		0	26 11 42	26 13 28
1	June .	13 14 54	13 21 30		JUNE .	10 6 4	10 5 18
	JULY .	$\begin{cases} 13 & 3 & 38 \end{cases}$	13 5 12		JULY .	9 18 48	9 20 44
1	0	127 22 0	27 15 32		Aug	8 7 82	8 11 44
	Aug	11 16 22	11 12 53		SEPT	6 20 16	7 1 51
	SEPT	10 5 6	9 21 28		Oct	6 9 0	6 15 1
	Oct	9 17 50	9 7 41		Nov.	( 4 21 44	5 3 17
	Nov	8 6 34	7 19 53			19 16 6	19 9 7
	DEC	7 19 18	7 10 13		DEC.	4 10 28	4 14 46
	1		1	ľ			
•———							

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon.
B.C. 482. c. March. d. h. m. 27 9 14	JAN FEB MAR APRIL MAY O  JUNE . JULY . AUG SEPT OCT	d. h. m. 2 23 12 1 11 56 3 0 40 1 13 24	d. h. m.  8 1 81 1 11 88 2 21 25 (1 7 25 (80 18 28 16 5 52 80 6 55 28 21 15 28 18 6 27 5 44 25 22 17 25 18 57 8 18 40 24 4 14	B.C. 479. F. March. d. h. m. 27 2 41	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	d. h. m.  29 8 6  27 15 50  (14 10 12  29 4 34  27 17 18  27 6 2  25 18 46  25 7 80  28 20 14  { 7 14 36  (22 8 58  21 21 42  20 10 26  19 23 10	d. h. m. 29 16 40 28 5 9 14 5 27 29 14 58 27 22 86 27 5 20 25 12 9 24 20 11 23 6 25 7 20 9 21 19 84 21 11 46 20 6 20 20 1 52
481. B.A. 26 15 8	DEC.  JAN. FEB. MAR. APRIL MAY. JUNE. JULY. AUG. SEPT. OCT. Nov. DEC.	28 8 0 21 20 45 20 9 29 20 22 18 19 10 57 18 28 41 17 12 25 17 1 9 15 18 58 14 2 87 18 15 21 12 4 5 11 16 49	28 16 50  22 8 47  20 18 16  20 21 44  19 5 56  18 14 51  17 1 24  16 14 20  15 5 45  18 28 9  18 17 28  12 11 22  12 8 40	478. E. 27 8 80	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT Nov	18 11 55 17 0 39 { 8 19 1 18 18 28 17 2 7 16 14 51 15 3 85 14 16 19 {18 5 8 27 28 25 11 17 47 11 6 81 9 19 15	18 20 45 17 18 27 8 14 11 19 8 9 17 18 58 16 22 18 15 5 24 14 12 19 12 20 6 28 2 36 11 5 40 10 17 41 9 8 26
480. c. 26 20 52	JAN FER MAR O APRIL MAY . JUNE . JULY . AUG SEPT	10 5 84 8 18 18 10 7 2 (25 1 24 8 19 46 8 8 80 6 21 14 6 9 58 4 22 42 { 8 11 26	10 17 41 9 5 18 10 14 82 25 8 29 8 22 17 8 5 28 6 12 58 5 21 50 4 9 17 2 28 41	477: p.c. 26 14 19	JAN FEB MAR APRIL MAY . JUNE . JULY .	9 7 59 7 20 48 6 9 27 6 22 11 5 10 55 4 28 89 8 12 28 8 1 7 ( 1 18 51	6 14*47 7 8 4 5 22 58 5 11 8 8 20 54 8 5 8 1 12 52
The state of the s	Oct Nov Dec	18 5 48 8 0 10 1 12 54 1 1 88 80 14 22	18 6 59 2 16 54 1 11 54 1 7 12 81 1 11		SEPT OCT Nov DEC	81 2 85 29 15 19 29 4 8 27 16 47 27 5 81	29 6 84 28 17 49 27 7 4

Mean Vernal	Month.	Mean New Moon.	True New	Mean Vernal	Month.	Mean New Moon.	True New Moon,
Equinox.		(O Fair Ec.)	(O Full Ecl.)	Equinox.		C Fun Kei.	)(O Full Ecl
B.C.	,	d. h. m.	d. h. m.	B.C. 473.		d. h. m.	d. h. m
476.	0	(10 23 54	11 10 36	F.E.	JAN	28 9 26	28 10 58
B. Manah	JAN., .	25 18 16	25 14 51	March. d. h. m.	FEB	21 22 10	21 20 88
March. $d. h. m.$	FEB	24 7 0	24 8 8	26 13 34	MAR	22 10 54	22 6 11
26 20 7	MAR	25 19 44	26 1 5		APRIL	20 28 88	20 16 19
	Arril	24 8 28	24 16 45		MAY.	20 12 22	20 8 49
	MAY .	23 21 12	24 6 27		June .	19 1 6	18 17 11
	JUNE .	22 9 56	22 18 7		JULY.	18 18 50	18 8 22
	0	(7 4 18	6 15 55		Aug.	17 2 84	17 0 58
*	JULY.	21 22 40	22 4 11		SEPT.	15 15 18	15 17 50
	Aug	20 11 24	20 13 26		Oct.	(15 4 2	15 10 19
	SEPT	19 0 8	18 22 43		0	29 22 24	29 10 56
	Oct	18 12 52	18 8 36		Nov.	18 16 46	14 1 88
.	Nov.	17 1 36	16 19 29		DEC.	18 5 80	18 15 8
	DEC	(16 14 20	16 7 25		DEC.	10 0 00	10 10 6
	0	81 8 42	31 20 41	472.	JAN	11 18 15	12 2 58
			01 20 11	D.	FEB	10 6 59	10 12 54
475.	JAN	15 3 5	14 20 28	26 19 28	MAR	11 19 48	11 21 86
A.	FEB	13 15 49	13 10 37		APRIL	£10 8 27	10 5 87
27 1 56	MAR	15 4 38	15 1 42		0	<b>125 2 49</b>	25 18 17
	APRIL	13 17 17	13 17 24		MAY .	9 21 11	9 18 52
	MAY .	13 6 1	13 9 1		June .	8 9 55	7 28 22
	June.	∫11 18 45	11 23 59		JULY.	7 22 89	7 11 0
	0	26 13 7	26 4 10		Aug	6 11 28	6 1 18
	JULY.	11 7 29	11 13 41		SEPT	507	4 17 58
	Aug	9 20 13	10 2 6		Oct	f 4 12 51	4 12 7
	Sept	8 8 57	8 13 31		0	19 7 18	19 0 18
	Ocr	7 21 41	8 0 24		Nov	8 1 85	8 6 84
	Nov	6 10 25	6 11 9		DEC	2 14 19	2 28 56
	Dec	∫ 5 23 9	5 21 59				
	0	20 17 31	20 23 27	471.	JAN	1 8 8	1 15 18
474.	Jan	4 11 53	4 8 56	C.	777	80 15 47	81 8 55
G.	FEB	3 0 37	2 20 4		FEB	C 1	***
27 7 45	MAR.	4 13 21	4 7 43	27 1 12	MAR	1 4 81	1 14 9
	APRIL	3 2 5	2 20 16			(80 17 15	80 22 26
	MAY .	2 14 49	2 9 59		0	[14 11 87]	14 14 58
,	,- 3	(1 3 33	1 0 49		APRIL	29 5 59	29 5 86
	June O	15 21 55	15 20 53		MAY.	28 18 48	28 12 41
		30 16 17	30 16 18		JUNE .	27 7 27	26 20 48
	JULY.	305 1	30 7 46		JULY.	26 20 11	26 6 50
	Aug.	28 17 45	28 22 38		Avg	25 8 55	24 19 47
	SEPT.	27 6 29	27 12 36		SEPT	28 21 89	28 11 46
	Oct.	26 19 13	27 1 38	.	0	8 16 1	8 16 16
,	Nov.	25 7 57	25 13 33		Oct	28 10 28	28 6 8
. }	DEC.	24 20 41	25 15 55 25 0 40		Nov.	21 28 7	22 1 86
			-0 U 4U		DEC.	21 11 51	21 20 28

Equinox.   Moon.   Moon.   Vernal   Equinox.   Moon.   Column   Equinox.   Column   Equinox.   Moon.   Column   Equinox.   Moon.   Column   Col	. h. m.	True New Moon. (O Full Ecl.)  d. h. m.
$\begin{bmatrix} 470. \\ B. \\ March. \end{bmatrix} Jan \begin{bmatrix} d. h. m. \\ 20 & 0.86 \end{bmatrix} 20 13 19 \begin{bmatrix} B.C. \\ 467. \end{bmatrix} Jan \begin{bmatrix} d \\ Jan. \end{bmatrix}$	15 46	· /
	10 0	16 10 24 31 20 23
27 7 0 Mar. 20 2 4 20 14 11 March. d. h. m. Feb. 15	4 30 17 14	15 3 12 16 20 13
May . 18 3 32 18 5 46 APRIL 15	5 58 18 42	15 12 29 15 3 12
July . 16 5 0 15 19 43 June . 18		13 15 58 13 2 56
	14 32 8 54	27 1 34 11 12 44
	21 38	9 22 9 9 7 53
469. Jan. 9 9 24 9 15 23 Dec. 7	23 6	7 18 22 7 5 45
A.G.   Feb   { 7 22 9   8 9 15   0   { 22 16 31   22 12 54   466.   Jan   6		5 18 6
26 12 48 Mar 8 10 53 9 0 26 D. Feb 4 April 6 23 37 7 12 33 27 6 15 Mar 6		4 7 25 5 21 45
May . 6 12 21 6 22 0 APRIL JUNE . 5 1 5 5 5 88		4 12 56 4 4 32
July . 4 18 49 4 12 35 July . 6 3 2 33 2 19 57 July . 6 3	16 15 2 4 59	2 19 52 2 10 22
O (17 20 55 17 22 18 Sept. 1 15 17 (1 4 39 Aug. 30		31 23 40 30 11 49
Oct \[ \begin{pmatrix} 1 & 4 & 1 & \left( 30 & 15 & 30 \right) \\ 30 & 16 & 45 & \right] & \text{SEPT.} \] \[ \begin{pmatrix} 25 \\ Oct. \\ 25 \\ \end{pmatrix} \]		28 23 11 28 10 11
Nov   29 5 29   28 20 55	5 20 89 L 15 1 S 9 28	26 21 3 11 17 46 26 7 53
	22 <b>7</b>	24 18 44 23 5 48
26 18 87 MAR 27 8 25 27 19 28 APRIL 22	28 25 12 19	28 17 88 22 6 24
	19 25	21 20 33 5 21 18
July . 28 11 21 28 12 50 July . 20		20 11 44 20 8 26
Aug. 22 0 5 21 20 54 Sept. 17		18 18 56 17 9 40
Oct 20 1 33 19 16 17 Nov \( \)15	,	16 28 24 15 12 8
	23 49 18 11	29 17 18 14 23 41

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Menn New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 464. A. March. d. h. m. 26 17 53	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEFT OCT NOV	d. h. m.  13 6 56 11 19 40 13 8 24 11 21 8 {11 9 52 26 4 14 9 22 36 9 11 20 8 0 4 6 12 48 6 1 32 { 4 14 16	d. h. m.  13 10 18  11 20 3  13 5 20  11 14 50  11 1 20  26 13 6  9 13 36  9 3 58  7 19 57  6 13 2  6 6 7  4 22 19	B.C. 461. E.D. March. d. h. m. 26 11 19	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT	(O Full Ect.)  d. h. m.  10 22 5 9 10 50 § 9 23 31 § 24 17 56 8 12 18 8 1 2 6 13 46 6 2 80 4 15 14 § 8 8 58 § 17 22 20 2 16 42	d. h. m.  11 9 14 10 0 88 10 12 57 24 12 41 8 22 80 8 6 6 6 12 47 5 19 41 4 8 50 2 14 15 18 4 8 § 2 8 88
<b>463.</b> g. 26 28 41	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov Dec	19 8 38 4 3 0 2 15 44 1 4 28 2 17 12 { 1 5 56 80 18 40 30 7 24 28 20 8 28 8 52 26 21 36 25 10 20 24 23 4 23 11 48 23 0 32	18 22 12 4 12 54 3 1 34 1 12 21 2 21 27 1 5 30 30 13 21 29 21 57 28 8 21 27 21 16 26 12 53 25 6 36 25 1 18 23 19 33 28 12 4	460. c. 26 17 §	Nov  Dec  Jan  Feb  O Mar  April May .  June .  July .  Aug  O Sept  Oct  Nov	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	\( 81 \) 19 49 \\ 80 14 20 \\ 80 9 45 \\ 29 4 27 \\ 27 20 57 \\ 18 21 57 \\ 29 10 82 \\ 27 21 11 \\ 27 5 87 \\ 25 12 52 \\ 21 20 0 \\ 28 4 4 4 \\ 7 10 1 \\ 21 18 54 \\ 21 2 5 \\ 19 16 47
462. F. 27 5 30	JAN FEB MAR APRIL MAY JUNE JULY . AUG SEPT O OCT Nov DEC	21 18 17 20 2 1 21 14 45 20 3 29 19 16 18 18 4 57 17 17 41 16 6 25 {14 19 9 29 18 81 14 7 58 12 20 87 12 9 21	22 2 5 20 13 24 21 22 27 20 5 55 19 12 48 17 20 10 17 5 8 15 16 38 14 7 13 29 15 24 14 0 36 12 19 48 12 15 14	<b>459.</b> в. 26 22 57	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	19 15 42 18 4 27 16 17 11 18 5 55 16 18 89 16 7 28 14 20 7 14 8 51 12 21 85 11 10 19 10 28 8 9 11 47 9 0 81	19

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 458.	JAN.	d. h. m.	d. h. m. 7 6 28	B.C. 455.	Jan	d. h. m. 4 4 26	d. h. m.
A.	JAN.,	22 7 33	22 19 8	March.	FEB	2 17 10	4 9 33
March.	FEB	6 2 0	5 22 33	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAR.	4 5 54	2 19 31 4 4 45
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAR.	7 14 44	7 15 19	20 22 12	APRIL	2 18 38	2 13 47
21 4 10	APRIL	6 3 28	6 7 52		APRIL	(2 7 22	1 23 28
	MAY.	5 16 12	5 23 22		MAY .	31 20 6	31 10 37
	June .	4 4 56	4 13 11		JUNE.	30 8 50	29 23 50
	July.	(3 17 40	4 1 10		JULY.	29 21 34	29 15 8
	0	18 12 2	17 23 5			28 10 18	28 7 59
		(2 6 24	2 11 43		Aug.	26 23 2	27 1 27
	Aug	31 19 8	31 21 29		SEPT	26 11 46	26 18 28
	SEPT		30 7 13		Ocr	(10 6 8	9 19 33
			29 17 28		0	25 0 30	25 10 6
	Oct	29 20 36			Nov.	1	24 23 50
	Nov.	28 9 20	28 4 24		DEC	24 13 14	24 25 50
	DEC	27 22 4	27 16 9	454.	JAN	23 1 58	23 11 27
	0	(11 16 26	12 4 55	с.	FEB	21 14 42	21 21 12
457.	JAN	26 10 48	26 4 44	27 4 1	MAR	23 3 26	23 5 31
G.F.	FEB. ,	24 23 32	24 18 16		APRIL	21 16 10	21 13 10
26 10 34	MAR	25 12 16	25 8 45		0	( 6 10 32	6 20 1
	APRIL	24 1 0	24 0 0		MAY .	21 4 54	20 21 6
	MAY .	23 13 44	23 15 28		JUNE .	19 17 38	19 6 24
	JUNE .	22 2 28	22 6 33		JULY .	19 6 22	18 17 59
	0	( 6 20 50	6 11 36		Aug	17 19 6	17 8 20
	JULY.	21 15 12	21 20 39		SEPT	16 7 50	16 1 15
ł	Aug	20 3 56	20 9 39		Oct	(15 20 34	15 19 48
	SEPT	18 16 40	18 21 39		0	30 14 56	30 9 5
	Oct	18 5 24	18 9 1		Nov	14 9 18	14 14 37
	Nov	16 18 8	16 20 6		DEC	13 22 2	14 8 14
	DEC	(16 6 52	16 6 56	453.	T. 37	12 10 47	12 23 36
	0	31 1 14	31 7 21	B.A.	JAN FEB	10 23 31	11 12 10
450	7	14 10 97	14 17 39	26 9 50	MAR.	11 12 15	11 22 10
456. E.	JAN	14 19 37		20 9 90	APRIL	(10 0 59	
	FEB.		13 4 18		APRIL	24 19 21	1
26 16 23	MAR.	14 21 5	14 15 22 13 3 21		MAY .	9 13 43	1
	APRIL	13 9 49	12 16 38		JUNE.	8 2 27	7 20 3
	MAY .	12 22 33			JULY.	7 15 11	7 4 4
	JUNE .	11 11 17	11 7 17 26 4 24		Aug	6 3 55	
	, O	26 5 39	10 22 52		SEPT.	4 16 39	1
	JULY.	11 0 1			0	(4 5 28	
	Aug.	9 12 45			OCT.	18 23 45	
	SEPT.	8 1 29	8 6 12	'	Nov.	2 18 7	1
	Oct	7 14 13	7 20 46		1404	(2 6 51	
	Nov.	6 2 57	6 10 12 5 22 27		DEC	31 19 35	_
	Dec	5 15 41	0 42 41			.02 20 00	

,							talenta and the second and the secon
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.		True New Moon.
B.C. 452. G. March. d. h. m. 26 15 39  451. F. 26 21 27	JAN  FEB  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  SEPT  O  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  O  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  O  SEPT  O  MAR  APRIL  MAY .  JUNE .  JULY .  AUG  O  SEPT  O  MAR  APRIL  MAY .  JUNE .  JUNE .  JUNE .  JUNE .  JUNE .  JUNE .  JUNE .  JUNE .  O  SEPT  O  SEPT	d. h. m.  {  30 8 19 28 21 4 30 9 48 28 22 32 28 11 16 27 0 0 26 12 44 25 1 28 23 14 12 23 2 56 21 15 40 21 4 24 19 17 8 18 5 52 { 5 0 14 19 18 36 18 7 20 17 20 4 16 8 48 15 21 32 { 14 10 16 29 4 38 12 23 0 12 11 44 11 0 28 10 13 12 9 1 57 { 7 14 41 22 9 8 9 3 25 7 16 9 7 4 58 5 17 37 5 6 21 { 8 19 5 18 18 27 2 7 49 { 1 20 38 31 9 17	d. h. m.  1 4 29 30 21 16	B.C. 449. D.C. March. d. h. nl. 26 9 5	JAN  O FEB  MAR  APRIL  MAY .  JUNE .  JUNE .  OCT  NOV  DEC  APRIL  MAY .  JUNE .  JULY .  OCT  NOV  DEC  OCT  NOV  DEC  OULY .  AUG  SEPT  OULY .  AUG  SEPT  OULY .  AUG  SEPT  OULY .  AUG  NOV  NOV	d. h. m.  27 28 29 {11 17 51 {26 12 18  27 0 57 25 18 41 25 2 25 28 15 9 28 8 58 {6 22 15 {19 18 5 18 6 49 17 19 88  16 8 18 14 21 2 16 9 46 14 22 80 14 11 14 12 28 58 12 12 42 11 1 26 9 14 10 9 2 54 7 15 88 {7 4 22 {21 22 44  5 17 7 4 5 51 5 18 85 4 7 19 8 20 8 {2 8 47 17 8 9 {1 21 81 81 10 15 29 22 59 28 11 48 28 0 27 26 18 11	d. h. m. 27 18 19 12 4 48
	Nov Dec	29 22 1 29 10 45	29 18 16 29 8 5		DEC	26 18 11 {11 7 88 26 1 55	26 20 58 11 1 21 26 8 84

Mean Vernal Equinox.	Month.	Mean New Moon.	Frue New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. O Full Ecl.)
B.C. 446. G. March. d. h. m. 27 2 81	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV O DRG	d. h. m.  24 14 89 23 8 28 21 16 7 29 4 51 22 17 85 { 6 11 57 21 6 19 20 19 8 19 7 47 17 20 81 17 9 15 { 15 21 59 80 16 21 15 10 48	d. h. m. 21 18 57 28 4 19 24 13 8 22 22 8 22 8 16 6 20 18 20 20 19 20 10 36 19 2 55 17 20 21 17 14 2 16 6 40 80 6 45 15 21 81	B.C. 443. c. March. d. h. m. 26 19 58		d. h. m. 21 5 49 19 18 33 21 7 17 { 5 1 39 19 20 1 19 8 45 17 21 29 17 10 18 15 22 57 { 14 11 41 29 6 3 14 0 25 12 13 9 12 1 58	d. h. m. 21 17 10 20 8 26 21 20 36 4 19 48 20 6 1 19 13 32 17 20 14 17 8 15 15 11 37 18 22 15 29 12 18 18 11 40 12 3 57 11 22 22
444. D. 26 14 9	JAN FRB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV DEC	18 28 28 12 12 12 18 0 56 11 13 40 11 2 24 25 20 46 9 15 8 9 8 52 7 16 36 6 5 20 5 18 4 4 6 48 8 19 32  { 2 8 17 81 21 1	14 10 13 12 20 45 18 5 31 11 18 18 10 20 48 26 5 55 9 5 6 8 15 24 7 4 22 5 20 10 5 14 12 4 9 14 4 8 46 2 20 21 1 10 21 2 21 28 {1 6 15 80 13 30 29 20 18 28 8 38 27 12 38 26 0 12 24 14 54	442. B. 27 1 47  441. A.G. 26 7 86	JAN. FEB. MAR. O APRIL MAY. JUNE. JULY. AUG. SEPT. O OCT. NOV. DEC.  JAN. FEB. MAR. APRIL MAY. JUNE. JULY. AUG. SEPT.	10 14 38 9 3 22 \$10 16 6 25 10 28 9 4 50 8 17 34 7 6 18 6 19 2 5 7 46 \$ 3 20 30 18 14 52 3 9 14 1 21 58 \$ 1 10 42 \$ 0 28 26 29 12 11 28 0 55 28 13 39 27 2 23 26 15 7 25 3 51 24 16 35 23 5 19	10 17 34 9 11 59 11 4 17 25 5 83 9 17 45 9 4 25 7 12 56 6 20 22 5 3 48 3 12 13 18 17 81 2 22 19 1 10 36 1 1 18 30 17 43 29 11 35 28 5 25 23 22 6 27 12 47 27 1 5 25 11 19 24 20 14 23 4 47
	O Oct. Nov. Dro.	$ \begin{cases} 9 & 21 & 15 \\ 24 & 15 & 87 \\ 28 & 4 & 21 \\ 22 & 17 & 5 \end{cases} $	9 23 59 24 8 27 28 3 45 22 23 11		OCT. Nov.	21 6 47 19 19 31	20 23 54 19 11 22

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon,
B.C. 440. F. March. d. h. m. 26 13 24	Jan  O Feb Mar. , April May . June . July .	d. h. m. 17 20 59 { 1 15 21 16 9 48 17 22 27 16 11 11 15 23 55 14 12 39 (14 1 23	d. h. m. 17 14 37 2 3 29 16 6 7 17 22 19 16 14 31 16 5 55 14 19 54 14 8 16	B.C. 437. c.B. March. d. h. m. 26 6 51	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG	d. h. m. 15 12 9 14 0 53 14 13 87 13 2 21 12 15 5 11 3 49 10 16 33 9 5 17	d. h. m. 15 18 16 14 3 57 14 12 43 12 21 18 12 6 31 10 17 26 10 6 34
	O AUG SEPT. , OCT. , NOV DEC	28 19 45 12 14 7 11 2 51 10 15 35 9 4 19 8 17 3	23 6 20 12 19 19 11 5 38 10 15 50 9 2 22 8 13 19	436.	SEPT. OCT. Nov. ODEC	7 18 1 7 6 45 5 19 29 20 18 51 5 8 13 3 20 58	7 15 12 7 9 9 6 2 39 20 4 13 5 18 37
26 19 13	JAN  © FEB  MAR  APRIL	7 5 48 22 0 10 5 18 32 7 7 16 5 20 0	7 0 49 22 13 0 5 12 54 7 1 49 5 15 44	26 12 40	FEB MAR APRIL	2 9 42 3 22 23 2 11 10 1 23 54	4 8 27 2 19 57 4 5 23 2 13 20 1 20 40
	MAY . JUNE . JULY . O AUG SEPT OCT Nov	5 8 44 3 21 28 3 10 12 18 4 84 1 22 56 31 11 40 30 0 24 29 13 8 28 1 52	5 6 34 3 21 56 3 13 10 17 19 8 2 3 43 31 17 18 30 5 54 29 17 46 28 5 3	5	JUNE . JULY . AUG SEPT OGT ONOV DEC	\begin{cases} \{ 16 & 18 & 16 \\ 81 & 12 & 38 \\ 30 & 1 & 22 \\ 20 & 14 & 6 \\ 28 & 2 & 50 \\ 26 & 15 & 34 \\ 26 & 4 & 18 \\ \{ 9 & 22 & 40 \\ 24 & 5 & 46 \end{cases} \end{cases} \} \end{cases}	17 2 42 31 4 21 29 13 30 29 1 6 27 15 34 26 8 44 26 8 36 9 18 0 24 22 48
438. p. 27 1 2	DEC  O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	27 14 36 {11 8 58 26 3 21 24 16 5 26 4 49 24 17 33 24 6 17 22 19 1 { 7 13 23 { 22 7 45 20 20 29 19 9 13 18 21 57 17 10 41 16 23 25	27 15 51 11 15 11 26 2 14 24 12 25 25 22 55 24 10 21 23 28 16 22 13 48 7 11 57 22 5 88 20 21 51 19 13 54 19 5 2 17 18 54 17 7 18	<b>435. 6.</b> 26 18 29	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT OT DEC	24 5 46  22 18 £0 21 7 14 22 19 58 21 8 42 { 6 3 4 { 20 21 26 19 10 10 18 22 54 17 11 38 16 0 22 { 15 13 6 30 7 28 14 1 50 13 14 34	24 16 30  28 7 50 21 20 15 28 6 1 21 13 48 6 4 2 20 20 38 19 3 25 18 11 29 16 21 46 15 11 0 15 3 17 30 9 46 13 21 57 18 17 33

Mean Vernal	Month.	Moon.	True New Moon.	Mean Vernal	Month	Mean New Moon. O Full Ecl.)	rne New Moon. Full Ecl.)
Equinox.		(O Full Ecl.)	Full Ecl.)	Equinox.			
B.C. 434. F. March. d. h. m. 27 0 17	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OC1 Nov	d. h. m.  12  8 19 10 16  8 12  4 47 10 17 31 10  6 15 8 18 59 8  7 48 6 20 27 5  9 11 4 21 55 8 10 39	d. h. m.  12 12 25  11 5 4  12 18 42  11 5 21  10 13 39  8 20 38  8 3 25  6 11 6  4 20 36  4 8 41  2 23 36	B.C. 431. B. March. d. h. m. 26 17 44	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEFT	8 18 29 { 7 7 13 }22 1 35 8 19 57 7 8 41 6 21 25 5 10 9 4 22 53 } 3 11 37	d. h. m. 8 11 27 7 2 9 12 12 55 8 17 47 7 9 51 7 1 39 5 16 24 5 5 45 3 17 39 17 16 12 2 4 31
	DEC.	2 23 23	2 17 1 1 11 55		Oct	1	1 14 59 31 1 28 29 12 15 28 23 23
433. E.D.	JAN FEB	\$\begin{cases} 1 12 8 \\ 31 0 52 \\ 29 13 36 \\ (15 7 58 \end{cases}	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	430.	JAN FEB	27 16 2 26 4 46	27 10 57 25 23 8
26 6 6		26 16 32 26 5 16 24 18 0 23 6 44 22 19 28		1	MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC.	22 9 10 20 21 54 20 10 33 18 23 22	27 12 18 26 2 24 25 17 27 24 8 51 24 0 0 22 14 21 21 3 44 20 16 12 19 3 55 18 14 59 2 9 38
432. c. 23 11 5	55 MAR.		18 0 18 3 4 20 58 3 19 17 20	3 429. 6 G.F. 5 26 5 2	JAN. FEB. MAR. APRII	14 15 2	17 1 26 15 11 27 15 21 26 14 8 3 13 19 59
	APRII MAY JUNE JULY AUG. O SEPT. OCT. NOV. DEC.	. 17 12 80 . 16 1 20 . 15 14 4 . {14 2 4 28 21 1 . 12 15 8 . 12 4 1 . 10 17	3     17     22     3       4     16     9     5       4     15     19     3       8     14     4     2       9     12     13     2       12     13     2     11     23       10     9     5	6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	May June O July Aug. Sept. Oct. Nov. Dec.	. {12 16 30 27 10 52 . 12 5 14 . 10 17 58	12 9 36 27 12 13 12 0 50 10 17 8 9 9 89 9 1 87 7 16 24 7 5 41

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl	True New Moon.
Vernal	Month.  JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT Nov	Moon.	Moon.	Vernal	Month.  JAN FEB MAR  O APRIL MAY . JUNE . JULY . AUG SEPT  O CT Nov	Moon. (O Full Ecl  d. h. m. 3 0 49 1 13 33 { 2 2 17 { 81 15 1 { 15 9 23 { 30 3 45 29 16 29 28 5 13 27 17 57 26 6 41 24 19 25 { 9 13 47 { 24 8 9	Moon. (C) Full Ect.  d. h. m.  3 7 8 2 0 59 2 16 5 (1 4 7 15 2 51 80 18 25 29 20 57 28 3 45 27 10 58 25 19 35 24 6 24 9 20 26 28 19 56
427 D. 26 16 59	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov DEC	24 7 12 22 19 56 24 8 40 22 21 24 22 10 8 6 4 30 20 22 52 20 11 36 19 0 20 17 13 4 17 1 48 15 14 32 15 3 16	24 18 48 23 5 1 24 18 28 22 20 49 22 4 4 6 12 40 20 12 17 19 22 33 18 11 36 17 3 36 16 21 55 15 17 13 15 11 56	<b>424.</b> g. 26 10 26	Nov DEC  JAN FEB MAR  O APRIL MAY . JUNE . JULY . AUG SEPT  O OCT. , Nov DEC	22 20 58 22 9 37 20 22 22 19 11 6 20 28 50 4 18 12 19 1 2 84 19 1 18 17 14 2 17 2 46 15 15 80 (14 4 14 (28 22 86 18 16 58 12 5 42 11 18 26	22 12 9 22 6 21 21 1 16 19 19 23 21 11 28 4 18 14 20 0 51 19 11 38 17 20 16: 17 3 58 15 11 46 18 20 30 29 1 9 18 6 51 11 19 13 11 9 88
<b>426.</b> c. 26 22 48	Jan Feb Mar April May . June . July . Aug Sept Oct O Nov Dec	13 16 0 12 4 44 13 17 28 12 6 12 11 18 56 10 7 40 9 20 24 8 9 8 6 21 52 { 6 10 36 { 21 4 58 4 23 20 4 12 4	14 4 36 12 18 26 14 5 21 12 13 55 11 20 58 10 3 38 9 10 58 7 20 5 6 7 58 5 22 44 21 8 39 4 16 24 4 11 48	<b>423.</b> F. 26 16 15	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov	10 7 10 8 19 54 10 8 88 8 21 22 8 10 6 6 22 50 6 11 84 5 0 18 3 18 2 3 1 46 1 14 80 { 1 3 14 { 80 15 58	10 1 50 8 19 7 10 12 28 9 4 54 8 19 81 7 7 59 6 18 32 5 8 54 8 12 55 22 22 2 { 1 8 42 30 20 11 80 8 50

B.C. 422.    March.   Feb.   29   448   28   22   40   20   22   38   38   38   39   38   38   38   38	Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Moon.	True New Moon.
## Acc.   A. P.   A. A. P.   A. A. P.   A. A. P.   A. A. P.   A. A. P.   A. A. P.   A. A. P.   A. A. P.   A. A. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P.   A. P. P. P. P.   A. P. P. P. P.   A. P. P. P. P.   A. P. P. P. P.   A. P. P. P. P. P.   A. P. P. P. P. P. P.   A. P. P. P. P. P. P. P.   A. P. P. P. P. P. P. P. P. P. P. P. P. P.	Equinox.	(	O Full Ect.)	O Full Eci.)	Equinox.		(O Full Ecl.)	Full Ecl.)
E. March.    12 28 5   18 11 44	B.C.		d. h. m.	d. h. m.	419.		d. h. m.	d. h. m.
March. d. h. m. 26 22 8  Mar. 26 22 8  Mar. 27 7 7 27 18 85 29 6 11 29 5 15  April 27 18 85 29 6 11 29 5 15  April 27 18 85 27 21 6  May 27 7 89 27 12 27  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 28 26 2 39  June 25 20 17 21 18 25  Aug. 20 18 1 20 5 2  Sept. 19 1 45 18 22 35  Oct. 26 3 52  Mar. 17 14 59 17 9 14  April 16 8 48 15 22 37  Max 17 14 59 17 9 14  April 16 8 48 15 22 37  Max 17 14 59 17 9 14  April 16 8 48 15 22 37  Max 17 14 59 17 9 14  April 16 8 48 15 22 37  Max 17 14 59 17 9 14  April 16 8 48 15 22 37  Max 10 18 18 19 50  Oct. 28 12 17 28 246  Aug. 10 19 23 11 1 8  Oct. 10 8 7 10 14 15  Nov. 8 20 51 9 2 31  Dec. 8 9 85 8 14 0  April 26 15 80  Mar. 26 15 80  Mar. 26 15 80  Mar. 26 15 80  Mar. 29 18 39  June 20 17 21 18 25  Agr. 20 18 1 24 4 44  May 28 22 20 17 21 18 25  Agr. 20 18 1 20 5 2  Sept. 19 1 45 18 22 35  Oct. 18 14 29 18 16 59  Nov. 18 14 29 18 16 59  Nov. 18 14 29 18 16 59  Dec. 26 3 52  Mar. 36 16 15 50  May 19 22 14  April 41 6 18 22 37  May 11 19 5 10 20 48  Aug. 19 21 19 19 19 19 19 19 19 19 19 19 19 19 19	1	JAN	29 4 43	28 22 40		JAN	25 19 53	26 2 55
## April   Apr		0	12 23 5	13 11 44		FEB	24 8 37	24 12 15
26 22 8   Mar.   29 6 11   29 5 15   April   27 18 55   27 21 6   Max   27 7 89   27 12 27   June   25 20 28   26 2 39   Julx   25 9 7   25 15 27   Gamma   22 10 35   22 18 57   Aug.   22 11 38   22 0 20   Julx   22 0 17   21 18   22 11 38   22 0 20   Julx   22 0 17   21 18   22 11 38   22 0 20   Julx   22 0 17   21 18   22 18   25   Aug.   20 18 1   20 5 2   Sept.   19 1 45   18 22 35   Oct.   18 14 29   18 16 59   Nov.   20 12 8   20 11 19   Julx   22 0 17   21 18   22 35   Oct.   18 14 29   18 16 59   Oct.   21 28 19   22 0 84   Nov.   20 12 8   20 11 19   Julx   20 0 47   19 22 14   April   16 8 48   15 22 37   Max   15 16 27   15 16 20 57   Max   15 16 27   15 18 4   June   14 5 11   4 5 12   Julx   13 17 55   13 19 50   Oct.   10 8 7   10 14 15   Oct.   10 8 7   10 14 15   Oct.   8 9 35   814 0   Oct.   8 9 35   814 0   Oct.   8 9 35   814 0   Oct.   8 14 0   Oct.   S 16 24   April   S 16 29 24   April   S 16 29 24   April   S 16 29 24   April   S 16 29 24   April   S 16 29 24   April   S 16 29 24   April   S 16 29 24   April   S 16 29 24   April   S 16 29 24   April   S 16 29 24   April   S 16 20 20   April   S 16 20		FEB	27 17 27	27 13 33		MAR	25 21 21	25 20 36
MAY . 27 7 89 27 12 27     JUNE . 25 20 28 26 2 89     JULY . 25 9 7 25 15 27     O		MAR	29 6 11	29 5 15		APRIL	24 10 5	24 4 44
JUNE. 25 20 28 26 2 39 JULY. 25 9 7 25 15 27 O 9 8 29 8 18 45 AUG. 20 18 1 20 5 2 Sept. 19 145 18 22 35 Oct. 21 28 19 22 0 38 Nov. 20 12 8 20 11 19 DEC. 20 0 47 19 22 14  421. JAN. 18 13 31 18 9 28 D.C. O (2 7 58 2 20 56 Feb. 17 2 15 16 20 57 MAR. 17 14 59 17 9 14 April 16 8 48 15 12 28 27 MAY. 15 16 27 15 18 4 JUNE. 14 5 11 14 4 22 JULY. (13 17 55 18 19 50 OCT. 10 8 7 10 14 15 Nov. 8 20 51 9 2 31 DEC. 20 10 8 7 10 14 15 Nov. 8 20 51 9 2 31 DEC. 10 8 9 38 11 1 8 OCT. 10 8 7 10 14 15 Nov. 8 20 51 9 2 31 DEC. 20 7 0 42 Sept. 10 19 28 11 1 8 OCT. 10 8 7 10 14 15 Nov. 8 20 51 9 2 31 DEC. 20 7 0 42 Sept. 10 19 28 11 1 8 OCT. 10 8 7 10 14 15 Nov. 6 22 10 7 0 42 Sept. 10 19 28 11 1 8 OCT. 10 8 7 10 14 15 Nov. 8 20 51 9 2 31 DEC. 20 6 6 6 46  420. B. O (2 16 42 21 22 58 Feb. 5 11 4 5 10 4 JULY. 6 22 20 20 Cot. 18 14 29 18 16 59 Nov. 17 8 18 17 10 53 OCT. 10 8 7 10 14 15 Nov. 6 20 17 19 24 April 12 0 21 11 19 7 JULY. 11 9 5 10 20 48 AUG. 12 6 89 12 10 52 Sept. 10 19 28 11 1 8 OCT. 10 8 7 10 14 15 Nov. 8 20 51 9 2 31 DEC. 20 6 6 6 46  420. B. O (2 16 42 21 22 58 Feb. 5 11 4 5 10 48 Sept. 20 20 20 Cot. 20 6 8 6 25 18 52 Sept. 20 6 6 6 29 21 40 Sept. 20 18 1 20 5 2 Sept. 19 14 45 18 22 35 OCT. 18 14 29 18 16 59 Nov. 17 8 18 17 10 53 OCT. 18 14 29 18 16 59 Nov. 17 8 18 17 10 53 OCT. 18 14 29 18 16 59 Nov. 17 8 18 17 10 53 OCT. 18 14 29 18 16 59 Nov. 17 8 18 17 10 53 OCT. 18 14 29 18 16 59 Nov. 18 14 0 15 16 57 Feb. 18 14 29 18 16 59 Nov. 17 8 18 17 10 53 OCT. 18 14 29 18 16 59 Nov. 17 8 18 17 10 53 OCT. 18 14 29 18 16 59 Nov. 17 8 18 17 10 53 OCT. 18 14 29 18 16 59 Nov. 17 8 18 17 10 53 OCT. 18 14 29 18 16 59 Nov. 17 8 18 17 10 53 OCT. 18 14 29 18 16 59 Nov. 17 8 18 17 10 53 OCT. 18 14 29 OCT. 18 14 29 OCT. 18 14 29 OCT. 18 14 29 OCT. 18 14 50 OCT. 21 28 24 4 2 20 20 OCT. 22 20 20 20 20 20 20 20 20 20 20 20 20		APRIL	27 18 55	27 21 6		MAY .	23 22 49	23 13 39
July . 25 9 7 25 15 27		MAY .	27 7 39	27 12 27		June .	22 11 33	22 0 20
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	Oct.	15 5 39	14 16 59		SEPT.	12 8 5	12 12 36
	Nov.	13 18 23	13 7 54		Ост.	11 20 49	11 23 34
	DEC.	13 7 7	13 1 8		Nov.	10 9 33	10 10 24
	D.1.0	10, ,	10 1 0		DEC	9 22 17	9 21 14
415.	JAN	11 19 51	11 19 42		DEC	3 22 II	0 21 14
C.	FEB	10 8 35	10 14 13	410	_		
26 14 45	MAR	∫11 21 19	12 7 18	412. F.	JAN	8 11 1	8 8 9
	0	26 15 41	26 12 34		FEB	6 23 45	6 19 13
	APRIL	10 10 3	10 22 2	26 8 12	MAR	8 12 29	8 6 48
	MAY.	9 22 47	10 10 1		APRIL	7 1 13	6 19 19
	JUNE .	8 11 31	8 19 41		MAY.	6 13 57	6 9 2
	July.	8 0 15	8 3 54		JUNE.	5 2 41	4 23 52
	A.v.G.	6 12 59	6 11 43		July.	4 15 25	4 15 24
	SEPT	5 1 43	4 20 4		Aug.,	3 4 9	3 6 55
	Oct	4 14 27	4 5 42		SEPT	1 16 53	1 21 51
1	Nov	3 3 11	2 17 6		Oct	1 5 37	1 11 51
	DEC	$\begin{cases} 2 \ 15 \ 55 \end{cases}$	2 6 27		**	(30 18 21	31 0 49
		(	31 21 39	·	Nov	29 7 5	29 12 49
414.	T	(1 4 39			DEC	28 19 49	28 28 58
В.	JAN	(30 17 23	30 14 14				
	FEB		<b>.</b>		_ 0	12 14 12	12 17 20
	ľ	1 6 8	1 7 28	411.	Jan	(27 8 84	27 10 5
26 20 34	MAR.O	16 0 30	<b>16 4</b> 58	Е.	FEB	25 21 18	25 <b>1</b> 9 <b>3</b> 8
		(30 18 52	31 0 18	26 14 1	MAR.	27 10 2	27 5 5
	APRIL	29 7 36	29 15 48		APRIL	25 22 46	25 15 18
	MAY .	28 20 20	29 5 24		MAY.	25 11 30	25 2 45
	JUNE .	27 9 4	27 16 59		June.	24 0 14	23 16 12
	JULY.	26 21 48	27 3 4		, 0	8 18 36	8 19 46
	Aug	<b>25 1</b> 0 <b>3</b> 2	25 12 24		JULY.	23 12 58	23 7 88
	0	9 4 54	8 19 49		Aug	22 1 42	22 0 10
	SEPT	23 23 16	23 21 47		SEPT	20 14 26	20 17 18
	Oct.	23 12 0	23 7 48		Ост	20 3 10	20 9 44
	Nov	22 0 44	21 18 45		Nov	18 15 54	19 0 57
	DEC	21 13 28	21 6 43		DEC	18 4 38	18 14 26
	<u> </u>					1	

						<del></del> -	<del></del>
Mean Vernal Equinox	Month.	Mean New Moon. (O Full Ecl.)	Fue New Moon. Tull Ecl.)	Mean Vernal Equinox.	Month.	Mean New T Moon. O Full Ecl.)	rue New Moon. Full Ecl.)
B.C. 410. D. March. d. h. m. 26 19 49	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OUT NOV DEC O JAN FEB MAR APRIL	4 14 55 5 8 89	d. h. m.  1 17 82 17 2 3 15 11 56 16 20 29 15 4 25 14 12 40 12 22 14 28 10 43 12 10 0 11 0 26 9 17 17 9 11 36 8 6 6 7 23 25 21 23 57 6 14 34 5 3 5 5 13 6 8 21 15	B.C. 407. G. March. d. h. m. 26 13 16 406. F. 26 19 5		18 8 82 11 21 16 18 10 0 (11 22 44 26 17 6 11 11 28 10 0 12 9 12 56 8 1 40 6 14 24 (6 3 8 20 21 30 4 15 52 4 4 36 2 17 21 1 6 5 2 18 49 (1 7 38	d. h. m.  18 14 56  12 8 86  13 28 33  12 11 27  26 9 49  11 20 44  10 4 20  9 11 19  7 18 47  6 3 39  5 14 41  21 4 42  4 4 17  3 20 23  2 14 18  1 8 49  3 2 37  1 18 30  15 20 48
408. A. 26 7 2	MAY JUNE O JULY AUG. SEPT. OCT. NOV. DEC. JAN. FEB.	3 5 7  1 17 51  16 12 18  1 6 35  30 19 19  29 8 3  27 20 47  27 9 31  25 22 15  25 10 59  28 23 44  22 12 28  24 1 12  22 13 56  20 15 24  20 4 8  18 16 52  17 5 36  (16 18 20  (31 12 44)	3 4 20 (1 11 24 16 19 23 30 19 33 30 5 49 28 19 0 27 11 11 27 5 42 26 1 12 25 20 1 24 12 41 28 2 22 24 13 6 22 21 29 22 4 28 20 11 7 19 18 32 18 3 48 16 15 45 16 6 44 21 17 25 11 17 25 11 17 25 11 17 25 11 18 0 22	405. E.D. 26 0 59	MAY . JUNE . JULY . AUG SEPT OCT NOV DEC JAN FEB	(30 20 17 30 9 1 28 21 45 28 10 29 26 23 18 25 11 57 (10 6 19 25 0 41 23 13 25 28 2 9 21 14 54 20 3 33 20 16 22 19 5 6 18 17 50 17 6 34 16 19 18 15 8 2 13 20 46 18 9 30	\$\begin{array}{cccccccccccccccccccccccccccccccccccc

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 404. c. March. d. h. m. 26 6 42	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEFT OCT	d. h. m. 9 23 42 8 12 26 23 6 43 10 1 10 8 13 54 8 2 33 6 15 22 6 4 6 4 16 50 19 11 12 3 5 34 2 18 18	d. h. m. 9 17 21 8 6 38 23 19 47 9 20 56 8 12 3 8 3 36 6 18 55 6 9 23 4 22 41 18 21 19 8 10 54 2 22 20	B.C. 401. G.F. March. d. h. m. 26 0 9	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	d. h. m. 7 14 52 6 3 36 6 16 20 5 5 4 4 17 48 8 6 32 2 19 16 { 1 8 0 30 20 44 29 9 28 28 22 12 27 10 56	d. h. m.  8 0 49 6 11 24 6 20 22 5 4 20 4 12 6 2 20 45 { 2 7 16 81 20 23 30 12 11 29 6 5 29 0 52 27 19 5
403.	Nov DEC JAN	$ \begin{cases} 1 & 7 & 2 \\ 30 & 19 & 46 \\ 30 & 8 & 30 \end{cases} $ 28 21 15	1 9 23 30 20 18 30 7 5 28 17 53	400. E.	DEC  JAN FEB	12 5 18 26 23 40 25 12 24 24 1 9	26 1 17 24 12 26
В.	0	∫12 15 37	13 4 42	26 5 58	MAR.	25 13 53	25 21 18
26 12 81	FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT Nov DEC	27 9 59 29 22 48 27 11 27 27 0 11 25 12 55 25 1 39 8 20 1 28 14 28 22 3 7 21 15 51 20 4 85 19 17 19	27 4 58 28 16 31 27 5 25 26 19 35 25 10 50 25 2 35 8 10 33 23 18 8 22 8 56 21 22 42 20 11 21 19 22 55		APRIL MAY .  O JUNE . JULY . AUG SEPT OCT NOV  O DEC	24 2 87 28 15 21 7 9 48 22 4 5 21 16 49 20 5 38 18 18 17 18 7 1 16 19 45 { 1 14 7 16 8 29	24 4 89 28 11 81 7 15 55 21 18 56 21 4 2 19 15 45 18 6 83 18 0 7 16 19 24 1 11 54 16 14 48
402.	JAN	18 6 4	18 9 27 2 6 28	399. D.	JAN Feb	14 21 14 13 9 58	15 8 41 13 23 52
26 18 20	FEB  MAR  APRIL  MAY .  JUNE .  JULY .  O  AUG  SEPT  OCT  Nov  DEC	16 18 48 18 7 82 16 20 16 16 9 0 14 21 44 {14 10 28 29 4 50 12 28 12 11 11 56 11 0 40 9 18 24 9 2 8	16 19 4 18 4 15 16 18 41 16 0 14 14 12 34 14 2 59 29 3 19 12 19 12 11 12 28 11 5 83 9 21 45 9 12 16	26 11 47	MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov O DEC	14 22 42 18 11 26 {18 0 10 27 18 32 11 12 54 11 1 38 9 14 22 8 8 6 7 15 50 { 6 4 84 20 22 56 5 17 18	15 11 58 18 21 19 18 4 49 27 16 58 11 11 19 10 18 26 9 2 44 7 18 22 7 2 58 5 19 20 5 21 8 88

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 398.	,	d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
c. March.	JAN	4 6 2	4 9 21	395.	JAN	80 9 56	80 8 58
d. h. m.	FEB	2 18 46	3 3 52	March.	FEB	28 22 40	28 17 27
26 17 35	MAR.	4 7 30	4 20 10	d. h. m.	0	∫15 17 2	16 4 50
	APRIL	2 20 14	3 9 31	26 11 2	MAR.	(30 11 24	30 7 54
		2 8 58	2 20 1		APRIL	29 0 8	28 23 6
	May O	17 3 20	16 19 27		MAY .	28 12 52	28 14 33
	~	(81 21 42	∫ 1 4 22		June.	27 1 36	27 5 36
	June.	80 10 26	(30 11 85		JULY.	26 14 20	26 19 44
	Jury.	29 23 10	29 18 48		Aug	25 8 4	25 8 44
	Aug	28 11 54	28 3 1		_ 0	8 21 26	8 7 28
	SEPT	27 0 38	26 18 3		SEPT.,	28 15 48	23 20 48
	Ocr	26 13 22 25 2 6	26 1 24 24 16 15		Oct	23 4 32	23 8 15
	Nov	25 2 6 24 14 50	24 16 15		Nov	21 17 16	21 19 20
	Dec	24 14 50	24 9 15		DEC	21 6 0	21 6 9
397.	JAN	23 3 35	23 3 26		_		
B.A.	FEB	21 16 19	21 21 33	394. E.	JAN	19 18 45	19 16 47
25 23 24	MAR.	22 5 8	22 14 21		FEB. ,	18 7 29	18 3 23
	0	6 5 23 25	5 20 14	26 16 51	MAR	19 20 18	19 14 21
1	APRIL	20 17 47	21 4 57		APRIL	18 8 57	18 2 21
	MAY,	20 6 31	20 17 0		MAY.	17 21 41	17 15 33
	June .	18 19 15	19 2 54		June .	16 10 25	16 6 21
	JULY.	18 7 59	18 11 27		July .	15 28 9	15 22 1
	Aug	16 20 43	16 19 39		Aug	14 11 58	14 13 57
	SEPT	15 9 27	15 4 24		SEPT	18 0 87	18 5 29
	Ocr	14 22 11	14 14 21		Oct.	12 18 21	12 20 4
	Nov	13 10 55	18 1 51		Nov.,	11 2 5	11 9 82
	Dec	12 23 39	12 15 3		DEC	10 14 49	10 21 44
000	_			393.	JAN	1 9 8 83	9 8 42
398. <sub>G</sub> .	JAN.,	11 12 24	11 5 52	p.c.	JAN.	28 21 55	24 1 0
26 5 13	FEB.	10 1 8	9 21 54		FEB	7 16 17	7 18 84
20 5 15	MAR	$\begin{cases} 11 & 18 & 52 \\ 00 & 0 & 14 \end{cases}$	11 12 84	25 22 40	MAR.	8 5 1	8 8 41
	0	10 8 14	26 12 52	10 11 10	APRIL	6 17 45	6 12 39
	APRIL	10 <b>2</b> 36 9 15 20	10 7 1		MAY.	6 6 29	5 22 19
	MAY .		9 22 25 8 12 9		JUNE .	4 19 18	4 9 81
	JUNE. JULY.	8 4 4 7 16 48	8 12 9		JULY.	(4 7 57	8 22 52
	Arg.	6 5 32	6 10 89		0	19 2 19	19 8 21
	SEPT.	6 4 18 16	4 20 80		Aug	2 20 41	2 14 18
	0	19 12 39	19 8 18		_	(1 9 25	1 7 18
	Ост	4 7 0	4 6 20		SEPT	80 22 9	(1 0 52
	Nov.	2 19 44	2 16 40		Ocr	80 10 58	80 17 54
		(2 8 28	2 3 40		Nov.	28 28 87	29 9 80
	Dec	81 21 12	81 15 25		Dec	28 12 21	28 28 7

		35 37 1		Year		Man Nam	m »
Mean Vernal	Month.	Mean New	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.		(O Full Ecl.)	O Full Ect.)	Equinox.		(O Full Ecl.)	(O Full Ect.)
		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
B.C.				389. F.E.	-		
392.	_ 0	12 6 43	12 1 33	March.	JAN.	24 16 16	24 22 38
March.	JAN	27 1 6	27 10 36	d. h. m.	FEB	23 5 0	23 16 4
d. h. m.	FEB	25 13 50	25 20 11	25 21 55	Mar	23 17 44 22 6 28	24 6 52
26 4 28	Mar	27 2 34	27 4 22		APRIL	7 0 50	22 18 42
	APRIL	25 15 18	25 11 56		O May.	$\begin{cases} 7 & 0.50 \\ 21 & 19.12 \end{cases}$	6 16 46
	May .	25 4 2	24 19 52				
	JUNE.	23 16 46	23 5 15		JUNE.		20 11 44
	_ 0	8 11 8	8 17 58		JULY.	19 20 40	19 18 58
	JULY.	23 5 30	22 17 0		Aug	18 9 24	18 2 43
	Aug.	21 18 14	21 7 33		SEPT.	16 22 8	16 11 54 15 23 9
	SEPT.	20 6 58	20 0 39		Oct	31 5 14	
	Oct	19 19 42 18 8 26	19 19 21			14 23 36	31 13 3 14 12 46
	Nov.		18 14 11		Nov.	1	
	DEC	17 21 10	18 7 43		DEC	14 12 20	14 4 39
391.		( 1 15 33	1 8 30	388.	JAN	13 1 5	12 22 11
A.	JAN	16 9 55	16 22 55	D.	FEB	<b>11 13 4</b> 9	11 16 17
	FEB.	14 22 39	15 11 17	26 3 44	MAR	13 2 33	13 9 43
26 10 17	MAR.	16 11 23	16 21 4		APRIL	∫11 15 17	12 1 24
20 10 17	APRIL	15 0 7	15 4 57		0	l <sub>26</sub> 9 39	26 4 8
	MAY.	14 12 51	14 11 49		MAY .	11 4 1	11 14 43
-	JUNE .		12 18 47		June .	9 16 45	10 1 43
	0	27 19 57	28 2 8		July .	9 5 29	9 10 59
	JULY .		12 2 54		Aug	7 18 13	7 19 26
	Aug.		10 13 15		SEPT	6 6 57	6 4 3
	SEPT.		9 2 35		Oct	§ 5 19 41	5 13 30
	Ост.	9 4 31	8 18 55		0	20 14 3	20 16 44
	Nov.	7 17 15	7 13 35		Nov	4 8 25	4 0 18
	DEC.		7 9 11		DEC	8 21 9	3 12 35
				007	-	ſ 2 9 58	2 2 27
390.	JAN.	. 5 18 43	6 4 1	387. c.	JAN	131 22 37	31 17 40
G.	FEB.	. 4727	4 20 35		FEB		
26 16 6	MAR.	5 20 11	6 10 8	26 9 33	MAR	2 11 21	2 9 49
	APRIL	4 8 55	4 20 43			1 0 5	1 2 17
	MAY	. 3 21 39	4 4 58	\ <u> </u>	APRIL	o  <b>∤</b> 15 18 27	15 20 25
	JUNE	. 2 10 23	2 11 54			(30 12 49	30 18 11
	July	∫ 1 23 7			MAY	30 1 88	30 8 48
	2017	·   \jsi 11 21	31 2 11		June .	28 14 17	28 21 47
	Aug.	. 30 0 35	29 11 39		JULY .	28 3 1	28 9 11
	SEPT.	. 28 13 19	27 23 47		Aug.	. 26 15 45	26 19 34
	Oct.	. 28 2 3	27 14 51		SEPT.	. 25 4 29	25 5 36
	0	∫11 20 <b>2</b> 5			Ост.	. 24 17 18	24 15 49
	Nov.	. \26 14 47	26 8 28		Nov.	. 28 5 57	28 2 83
	DEC.	. 26 3 31	26 3 36		DEC.	. 22 18 41	. 22 13 50
			1	11	1	1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 386. B. March. d. h. m.	Jan Feb O Mar	d. h. m. 21 7 26 19 20 10 $\begin{cases} 6 & 14 & 32 \\ 21 & 8 & 54 \end{cases}$	d. h. m. 21 1 47 19 14 30 7 3 42 21 4 9	B.C. 383. E. March. d. h. m. 26 8 48	JAN FEB MAR APRIL	d. h. m. 17 22 35 16 11 20 18 0 4 16 12 48	d. h. m. 18 9 24 16 19 46 18 4 24 16 11 59
26 15 21	MAR APRIL MAY. JUNE. JULY. AUG O SEPT OCT.	19 21 38 19 10 22 17 28 6 17 11 50 {16 0 34 30 18 56 14 13 18 14 2 2	19 18 47 19 10 4 18 1 25 17 16 18 16 6 4 30 5 2 14 18 52 14 6 52		MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	16 1 32 14 14 16 14 3 0 12 15 41 11 4 28 10 17 12 9 5 56 6 8 18 40	15 19 28 14 3 54 13 14 20 12 3 30 10 19 31 10 13 42 9 8 49 9 3 18
385. A.G.	Nov DEC JAN FEB	12 14 46 12 3 30 10 16 15 ( 9 4 59	12 18 17 12 5 15 10 15 53 9 2 15	382. D.	JAN FEB MAR	7 7 24 5 20 9 7 8 53	23 6 22 7 19 48 6 9 33 7 20 27
25 21 10	MAR APRII. MAY. JUNE.	1 23 23 21 9 17 43 8 6 27 7 19 11 6 7 55	24 12 20 9 12 42 7 23 49 7 12 12 6 2 7	26 14 37	APRIL MAY . JUNE .	$5 21 37$ $5 10 21$ $\begin{cases} 3 23 & 5 \\ 18 & 17 & 27 \end{cases}$	6 5 8 5 12 13 3 18 55 18 22 31
	JULY . AUG O SEPT OCT Nov DEC	5 20 89 4 9 28 19 3 45 2 22 7 2 10 51 81 28 85 80 12 19 80 1 8	5 17 23 4 9 26 18 18 28 8 1 31 2 16 55 {1 7 13 30 20 11 80 7 46		July . Aug Sept Oct Nov O Dec	$ \begin{cases} 3 & 11 & 49 \\ 2 & 0 & 83 \\ 81 & 18 & 17 \\ 30 & 2 & 1 \\ 29 & 14 & 45 \\ 28 & 8 & 29 \\ 12 & 21 & 51 \\ 27 & 16 & 18 \end{cases} $	3 2 19 1 11 29 30 23 20 29 14 17 29 8 0 28 3 23 12 20 51 27 22 47
384. F.	Jan O Feb	28 13 47 {12 8 9 27 2 31	28 18 8 12 13 55 27 8 18	381. c.b. 25 20 26	JAN FEB MAR APRIL	26 4 57 24 17 41 25 6 25 28 19 9	26 16 85 25 7 88 25 19 88 24 4 48
26 2 59	MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT	28 15 15 27 8 59 26 16 48 25 5 27 24 18 11 8 12 88 28 6 55 21 19 89 21 8 28	28 12 0 26 20 58 26 7 9 21 10 18 24 9 45 8 11 8 28 2 12 21 19 50 21 18 81	,	MAY .  O JUNE . JULY . AUG SEPT OCT Nov	28 7 58 7 2 15 21 20 87 21 9 21 19 22 5 18 10 49 17 28 88 16 12 17	28 12 18 6 28 25 21 18 56 21 2 8 19 10 81 17 21 24 17 11 2 16 8 29
	Nov Dec	19 21 7 19 9 51	20 6 7 19 20 52		DEC	$\left\{\begin{matrix} 1 & 6 & 89 \\ 16 & 1 & 1 \end{matrix}\right.$	1

Mean   Month   Mean   New   Vernal   Equinox.   Month   Mean   Month   Co Full Ecl.   Co Full								
380.	Vernal	Month.	Moon.	Moon.	Vernal	Month.	Moon.	Moon.
March.			d. h. m.	d. h. m.			d. h. m.	d. h. m.
March.		JAN	14 13 45	14 17 5		JAN	12 4 56	12 0 2
26 2 14  MAR. 14 15 14 15 38 28		FEB	13 2 29				1	
APRIL   18   8   58   18   16   48				1			i .	
MAY . (12 16 42 18 8 18 18					20 10 11	1	17	
O								l .
JUNE . 11 5 26 11 11 41  JULY . 10 18 10 10 19 8  AUG 9 6 54 9 2 40  SEFT 7 19 38 7 11 12  Oct 7 8 22 6 21 30  Nov 5 21 6 5 9 56  Dec 5 9 50 5 0 40  379. G. 26 8 8 MAR 4 0 2 4 4 43  APRIL 2 12 46 2 21 14  MAY . {2 1 30 2 11 45  31 14 14 31 23 56  JUNE . 29 15 42 29 19 4  AUG 28 4 26 28 3 42  SEFT 26 17 10 26 12 52  Oct 26 5 54 25 23 5  Nov 24 18 38 24 10 39  Dec 24 7 22 23 33 7  378.  F. F. F. F. F. F. F. F. F. F. F. F. F			12 1				1	
JULY . 10 18 10 10 19 8 AUG 9 6 54 9 2 40 Sept 7 19 38 7 11 12 Oct 7 8 22 6 21 30 Nov 5 21 6 5 9 56 Dec 5 9 50 5 0 40  379. G. 26 8 8 ABRIL 2 12 46 2 21 14 ABRIL 2 12 46 2 21 145 JUNE . 30 2 58 30 10 7 JULY . 29 15 42 29 19 4 AUG 28 4 26 28 3 42 Sept 26 17 10 26 12 52 Oct 26 5 54 25 23 5 Nov 24 18 33 Dec 24 7 22 23 35 Zef 13 52 ARR. L 2 2 2 20 7 FEB 21 18 39 Dec 24 7 22 23 35 JUNE . 40 6 15 76 6 20 39 April 2 10 19 21 13 88 JUNE . 40 2 2 18 57 FEB 21 8 51 21 5 25 Nov 24 18 33 JULY . 10 9 31 April 47 19 18 53 JULY . 10 9 31 Arg 19 11 47 19 18 53 JULY . 19 0 31 Arg 11 43 12 15 1 Nov 14 8 27 Oct 18 16 11 18 12 35 Oct 18 16 11 18 12 35 Oct 18 16 11 18 12 35 Oct 18 16 11 18 12 35 Oct 18 16 11 18 12 35 Oct 18 16 11 18 12 35 Oct 18 16 11 18 12 35 Oct 18 16 11 18 12 35 Oct 18 16 11 18 12 35 Oct 18 16 11 18 12 35 Oct 18 16 11 18 12 35						1	1	
AUG 9 6 54 9 2 40   Sept 7 19 38 7 11 12   Oct 7 8 22 6 21 30   Nov 5 21 6 5 9 56   Dec 5 9 50 5 0 40   Oct 5 9 50 5 0 40   Oct 5 9 50 5 0 40   Oct 5 9 50 5 0 40   Oct 5 9 50 5 0 40   Oct 5 9 50 5 0 5 0 50 5 0 50   Oct 5 9 50 5 0 5 0 50 5 0 50 5 0 50 5 0 50 5 0 50 5								
Sept. 7 19 38 7 11 12		١.					'	1
Oct 7 8 22 6 21 30 Nov 5 21 6 5 9 56 Dec 5 9 50 5 0 40  379. G. Feb 2 11 18 2 11 0 AAFRIL 2 12 46 2 21 14 June . 30 2 58 30 10 7 July . 29 15 42 29 19 4 Aug 28 4 26 28 8 42 Sept 26 17 10 26 12 52 Oct 26 5 54 25 28 5 Nov 24 18 33 24 10 39 Dec 24 7 22 23 23 23 7  378. F. Feb 21 8 51 21 5 25 AARIL 2 10 0 90 81 19 714 Aug 19 11 147 June . 19 0 81 19 7 14 Aug 17 18 15 17 18 19 Sept 0 18 16 11 18 18 28 56 Oct 18 16 11 18 18 38 48 Oct 17 18 15 17 18 19 Sept 0 18 16 11 18 18 28 56 Oct 18 16 11 18 18 29 89 Nov 14 8 32 7 14 1 85 Dec 18 16 11 18 18 28 56 Oct 18 16 11 18 18 29 89 Nov 14 22 18 57 April 4 Aug 17 18 15 17 18 19 Sept 0 18 16 11 18 12 85 Nov 14 8 37 14 1 85 Dec 18 16 11 18 18 28 56 Oct 18 16 11 18 18 28 56 Oct 18 16 11 18 18 28 89 Nov 10 18 87 11 28 Oct 20 22 88 Nov 10 18 87 11 28			1		1			1
Nov. 5 21 6 5 9 56 Dec. 5 9 50 5 0 40  379. G. Feb. 2 11 18 2 11 0 Mar. 4 0 2 4 4 43 April 2 12 46 2 21 14 State 1 4 31 23 56 June 30 2 58 30 10 7 July 29 15 42 29 19 4 Aug. 28 4 26 28 8 42 Sept. 26 17 10 26 12 52 Oct. 26 5 54 25 23 5 Nov. 24 18 83 Dec. 24 7 22 23 23 23 37  378. F. Feb. 21 8 51 22 20 7 Feb. 22 18 57 Feb. 22 18 57 Feb. 22 18 51 22 21 38 OAPRIL 4 31 23 56 June 3 2 22 1 35 Dec. 24 7 22 21 35 June 4 30 2 58 June 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			1				1.2	
The control of the co					•		1	
379.  379.  379.  378.				1			1	
379. G. 26 8 8  April 2 12 46 2 21 14  May . { 21 30 2 11 45 3 1 18 42 21 28 11 29 11 29 11 29 11 41 41 31 28 36 30 2 58 30 10 7 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DEC.	5 5 50	5 0 40		Nov.		
379. G. FEB 2 11 18 2 11 0 MAR 4 0 2 4 4 43 APRIL 2 12 46 2 21 14 MAY . {2 1 30 2 11 45 31 14 14 31 28 56 JUNE . 30 2 58 30 10 7 JULY . 29 15 42 29 19 4 AUG 28 4 26 28 3 42 SEPT 26 17 10 26 12 52 Oct 26 5 54 25 23 5 Nov 24 18 38 24 10 39 DEC 24 7 22 23 28 37  378. F. FEB 21 8 51 21 525 26 13 52 MAR 22 20 7 22 18 57 FEB 21 8 51 21 525 26 13 52 MAR 22 21 85 22 21 33 JULY . 40 30 30 30 30 30 30 30 30 30 30 30 30 30						DEC	12	-
26 8 8 8	379.	JAN	3 22 34	3 17 17			(31 13 44	81 15 8
APRIL 2 12 46 2 21 14 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	G.	FEB	2 11 18	2 11 0				
APRIL MAY . {2 1 2 46   2 21 14   2 1 30   2 11 45   31 14 14   31 28 56   31 14 14   31 28 56   30 10 7   30 2 58   30 10 7   30 10 58   30 10 7   31 14 14   31 28 56   30 10 7   31 14 14   31 28 56   30 10 7   31 14 14   31 28 56   30 10 7   31 14 14   31 28 56   30 10 7   31 14 14   31 28 56   31 14   31 14 18   31 15 15   31 15   31 15   31 15 15   31 15 15   31 15 15   31 15 15   31 15 15   31 15 15	26 8 3	MAR	4 0 2	4 4 43	_			30 1 20
MAY . \begin{cases}     \begin{array}{cccccccccccccccccccccccccccccccccccc		APRIL	2 12 46	2 21 14	c.	l	28 15 12	28 11 26
MAY			(2 1 30	2 11 45	26 1 30	MAR	30 3 56	29 21 52
July . 29 15 42 29 19 4 Aug 28 4 26 28 3 42 Sept 26 17 10 26 12 52 Oct 26 5 54 25 28 5 Nov 24 18 38 24 10 39 Dec 24 7 22 23 28 37  378. F. Feb 21 8 51 21 5 25 26 13 52 Mar 22 20 7 22 18 57 Feb 21 8 51 21 5 25 26 18 52  Mar 22 21 35 22 21 38 May . 20 23 3 21 4 58 June . 19 11 47 19 18 58 June . 19 11 47 19 18 58 June . 19 11 47 19 18 58 June . 19 11 47 19 18 58 June . 19 11 47 19 18 58 June . 17 13 15 17 18 19 Sept (16 1 59 16 4 42) Oct 13 16 11 18 12 35 Dec 14 4 25 38 12 8 38 Dec 15 14 48 15 15 1 Dec 16 15 14 48 15 15 1 Dec 17 18 19 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 16 11 18 12 35 Dec 18 18 20 22 21 31 12 Dec 26 18 8 26 12 51 July . 26 6 52 26 4 42 Aug 24 19 36 24 21 15 Dec 22 11 4 28 423 Dec 22 11 4 28 423 Dec 24 7 22 21 35 25 Dec 24 7 22 21 35 7 Dec 26 18 8 22 11 8 18 Dec 26 18 8 26 12 51 Dec 24 19 36 24 21 16 Dec 20 22 34 2 21 16 Dec 20 22 38 20 21 16 33 Dec 26 18 8 20 24 13 12 Dec 26 18 8 20 24 13 12 Dec 27 14 28 428 Dec 28 8 20 22 11 81 Dec 26 18 8 20 24 13 12 Dec 26 18 8 20 24 13 12 Dec 26 18 8 20 24 13 18 Dec 26 18 8		MAY .	31 14 14	31 23 56			28 16 40	28 9 17
378. JAN 22 20 7		June .	30 2 58	30 10 7		MAY.		27 22 15
Sept. 26 17 10 26 12 52 Oct. 26 5 54 25 28 5 Nov. 24 18 38 24 10 39 Dec. 24 7 22 23 28 37 Dec. 24 7 22 21 85 5 22 18 57 Feb. 21 8 51 21 5 25 26 13 52 Mar. 22 21 85 22 21 83 Oct. 20 22 82 21 6 38 Sept. 20 28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		July.	29 15 42	29 19 4		June.	26 18 8	26 12 51
OCT 26 5 54 25 28 5 Nov 24 18 38 24 10 39 DEC 24 7 22 23 28 37  378. JAN 22 20 7 22 18 57 FEB 21 8 51 21 5 25 26 13 52 MAR 22 21 85 22 21 83 O		Aug	28 4 26	28 3 42		JULY.		26 4 42
OCT 24 18 38 24 10 39 Dec 24 7 22 28 28 37 Oct 22 21 4 23 4 23 Nov 21 9 48 21 18 18 Dec 20 22 32 21 6 33 Dec		SEPT	26 17 10	26 12 52				24 21 5
Nov.   24 18 55   24 10 55   23 23 37     Nov.   21 9 48   21 18 18   Dec.   20 22 32   21 6 33		Oct	26 5 54	25 23 5		1		23 13 12
378. JAN 22 20 7 22 18 57 F. Feb 21 8 51 21 5 25 26 18 52 MAR 22 21 85 22 21 83 O	ŀ	Nov	24 18 38	24 10 39			22 21 4	23 4 23
378. F. FEB 21 8 51 21 5 25 26 18 52  MAR 22 21 85 7 APRIL JAN 19 11 17 19 17 25  APRIL JAN 19 11 17 19 17 25  B.  26 7 19  MAR 19 12 45 19 11 37  APRIL JAN 19 11 17 19 17 25  B.  26 7 19  MAR 19 12 45 19 11 37  APRIL JAN 19 11 17 19 17 25  B.  26 7 19  MAR 19 12 45 19 11 37  APRIL JUNE . 19 11 47 19 18 53 JULY . 19 0 81 19 7 14  AUG 17 18 15 17 18 19 SEPT {16 1 59 16 4 42 } 0 {30 20 21 30 10 58} OCT 15 14 48 15 15 1 Nov 14 8 27 14 1 85 DEC 18 16 11 18 12 35		DEC	24 7 22	23 23 37		Nov	21 9 48	21 18 18
F. Feb 21 8 51 21 5 25 22 21 83 22 21 83						DEC	20 22 32	21 6 33
F. Feb 21 8 51 21 5 25 22 21 83 22 21 83	070	T	00 00 7	00 10 57				
26 13 52 Mar. 22 21 35 22 21 38	1					JAN	19 11 17	19 17 25
O APRIL (21 10 19) 21 18 38  MAY . 20 28 3 21 4 58  JUNE . 19 11 47 19 18 53  JULY . 19 0 31 19 7 14  AUG 17 18 15 17 18 19  SEPT (16 1 59) 16 4 42  O (30 20 21 30 10 53  Oct 15 14 48 15 15 1  Nov 14 3 27 14 1 85  DEC 18 16 11 18 2 57  MAR 19 12 45 19 11 37  APRIL 18 1 29 17 20 8  MAY . 17 14 18 17 5 24  JUNE . 16 2 57 15 16 22  JULY . (15 15 41 15 5 38  30 10 3 30 11 4  Atg 14 4 25 13 21 15  SEPT 12 17 9 12 14 36  Oct 12 5 53 12 8 38  Nov 10 18 37 11 2 8	•		1		В,	0	S 5 89	3 8 88
APRIL (21 10 19) 21 18 88  MAY . 20 28 8 21 4 58  JUNE . 19 11 47 19 18 53  JULY . 19 0 31 19 7 14  AUG 17 18 15 17 18 19  SEPT (16 1 59 16 4 42  O (80 20 21 80 10 58  OCT 15 14 48 15 15 1  Nov 14 8 27 14 1 85  DEC 18 16 11 18 12 35	20 10 02						`	18 2 57
May . 20 23 8 21 4 58		l	1-7		26 7 19		i	19 11 37
JUNE. \$19 11 47 19 18 53   JUNE. \$19 11 47 19 18 53   JUNE. \$19 0 31 19 7 14   Aug. \$17 13 15 17 18 19   O \$16 4 42   O \$10 0 20 21 30 10 58   Oct. \$15 14 43 15 15 1   Nov. \$14 3 27 14 1 35 25   Dec. \$18 16 11 13 12 35   Oct. \$10 18 37 11 2 8   O			,	!			18 1 29	17 20 8
July . 19 0 81 19 7 14  Aug 17 18 15 17 18 19  Sept (16 1 59 16 4 42)  O (30 20 21 30 10 58)  Oct 15 14 48 15 15 1  Nov 14 8 27 14 1 85  Dec 18 16 11 18 12 85							17 14 13	17 5 24
Aug 17 18 15 17 18 19		1 _	*			June .	16 2 57	15 16 22
Sept \begin{pmatrix} 16 & 1 & 59 & 16 & 4 & 42 \\ 0 & 20 & 21 & 30 & 10 & 53 \\ Oct. & 15 & 14 & 43 & 15 & 15 & 1 \\ Nov. & 14 & 3 & 27 & 14 & 1 & 85 \\ Dec. & 18 & 16 & 11 & 13 & 12 & 35 \\ Dec. & 18 & 16 & 11 & 14 & 15 \\ Dec. & 18 & 16 & 11 & 13 & 12 & 35 \\ Dec. & 18 & 16 & 11 & 13 & 12 & 35 \\ Dec. & 18 & 16 & 11 & 13 & 12 & 35 \\ Dec. & 18 & 16 & 11 & 13 & 12 & 35 \\ Dec. & 18 & 16 & 11 & 13 & 12 & 35 \\ Dec. & 18 & 16 & 11 & 13 & 12 & 35 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 & 15 \\ Dec. & 18 & 16 & 11 & 18 & 12 \\ Dec. & 18 & 16 & 11 & 18 & 12 \\ Dec.		1 .	1			July .	f 15 15 41	15 5 38
O (80 20 21 80 10 58 Oct 15 14 48 15 15 1 Nov 14 8 27 14 1 85 Oct 18 16 11 18 12 85 Oct 18 16 11 18 12 85			1			0	(30 10 3	30 11 4
Oct 15 14 48 15 15 1 Oct 12 17 9 12 14 86 Oct 12 5 58 12 8 88 Nov 14 8 27 14 1 85 Nov 10 18 87 11 2 8		1	13			ΑΰG	14 4 25	13 21 15
Nov 14 8 27 14 1 85 DEC 18 16 11 18 12 85 Nov 10 18 87 11 2 8				1		SEPT	12 17 9	12 14 36
DEC. 18 16 11 13 12 35 Nov. 10 18 37 11 2 8			1			Oct	12 5 53	12 8 38
DEC 10 7 21 10 18 2						Nov	10 18 37	11 2 8
		DEC.	19 10 11	19 17 99		DEC	10 7 21	10 18 2
		1						

		0 - 1 - 0	# (W)	committee wholese successive days	engraph - A		men according to the high
Mean Yernal Equipos	Month.	Mean New Mosts, ( ) Full E.1.)(	True Now Main. Yull Ect 1	Mean Vernal Equinox.	Month	Mean New Mean, ( ) Full Ect.) (	True New Moon.  Full Ect.)
B.C.	41	d, h, m,	d, h, m.	8.C. 371.	,	d. h. m.	d. h. m.
374.	JAN	( H 201 5	9 7 42	D,	JAW	5 11 10	5 11 27
March.	$\Theta$	221 14 27	231 P BO	March.	Fus.	4 0 0	4 6 12
d. A. m	Fan	. 7 8 50	7 19 8	26 6 84	Man.	5 12 44	5 28 28
26 13 7	M . n	H 21 B4	9 4 19		Arnii.	4 1 28	4 14 2
1	Armit	7 10 18	7 12 9		May .	( 8 14 12	4 1 51
	MAY .	6 28 2	6 19 23		O	<b>:[18 + 81</b> ]	17 28 41
	Jinn.	5 11 46	5 8 7		Juna.	2 2 56	2 11 15
5	Jucy .	( h () B)	4 12 24			1 15 40	1 19 12
	€.3	119 IN 62	20 1 17		Juny,	शिया बच्चा	81 2 44
	Aru.	8 18 14	8 0 9		Ava	29 17 H	20 10 50
	Harr.	2 1 64	1 14 51		NEPT.	24 5 52	27 20 19
:		( 1 14 42	1 8 11		Oct.	27 IH 80	27 7 48
	Oct	ini n 201	81 8 11		U	111 12 6A	11 21 28
(	Nov	20 16 10	20 22 18		Nov	20 7 20	25 21 18
i	Duc.	29 4 54	29 15 58		DEC.	25 20 4	25 12 55
			i		ĺ		
	0	(12 28 16	12 16 50	370.	JAN.	24 H 4H	24 5 58
373.	Jam	27 17 BH	24 7 6	r.	Fan.	22 21 82	22 28 81
41.7.	Fun	26 6 22	20 19 19	26 12 28	Man.	24 10 16	24 10 89
25 18 55	MAR.	26 10 6	27 4 52		Arnie	22 28 0	2B H 10
	Arnil	25 7 50	25 12 81		0	7 17 22	7 11 20
	MAY .	31 30 84	21 10 15		May .	122 11 41	32 21 H2
	Junn .	28 0 IH	28 2 10		Jiran ,	21 0 24	21 8 46
a property and the second seco	0	-( H 8 40	н ны		Just .	. 20 18 12	20 18 25
1	JULY .	્યાં જાજા ર	22 10 21		Ann	19 1 56	19 8 21
	Ava	81 10 40	அவ அவ வெ	1	Mert.	17 14 40	17 12 28
	Harr.	10 28 80	10 10 14		Oct.	(17 8 24	16 22 11
	Oct	19 12 14	10 2 44		O	B1 21 46	7 1 0 89
j j	Nov	18 0 M	17 21 38		Nov	15 16 H	15 9 7
1	Dec	17 18 49	17 17 9		Dac	15 4 52	14 21 19
872.	JAM	16 2 27	16 11 54	369.	JAN	18 17 87	18 10 48
2.	Fan.	14 15 11	15 4 21	*.A.	Fes.	19 6 91	19 1 96
V90 O 48	MAR.	16 8 55	16 17 45	98 18 12	MAR.	12 19 6	19 17 0
	Armi	14 16 80	15 4 12	****	Arnit	(11 7 40	11 9 1
7	May .	14 6 23	14 19 93		0	20 8 11	26 4 1
APSOCIATION AND APSOCIATION APSOCIATION AND APSOCIATION APSOCIATION APSOCIATION APSOCIATION APSOCIATION APSOCIATION APSOCIATION APSOCIATION APSOCIATION APPOCIATION APPOCIATION APPOCIATION AP	Juna.	13 le 7	19 19 90		MAY .	10 20 88	11 0 42
	July .	12 0 61	12 2 11		Juna .	9 9 17	9 15 95
			10 9 80		July .	H 223 1	9 4 48
	Aug Bert	1			Ave.	7 10 45	7 16 89
	O: 1.	4 .			Berr.	5 28 29	6 8 96
		1			Ort.		5 14 7
	Nov	11			Nov.	4 0 57	4 0 42
İ	Des	6 22 81	92 11 0 6 16 85		Dac.	8 18 41	8 11 81
	Duc	9 22 81	4 10 00		1	W AW 16	
Medicines suscession	a consistences de montre de la constante de la	t man semanal was selected to the	. y s vinoveresqueredation i	VIII WARDSHOOD CONTRACTOR	S Leggens for 12 storing holders	en sant in man or more in the constitution designation	

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Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.	Month.	(O Full Ecl.)	(O Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
				- B O			
		d. h. m.	d. h. m.	B.C. 365.		<b>d.</b> h. m.	d. h. m.
B.C. 368.		(2 2 25	1 22 37	D.C.	JAN	29 6 19	29 17 52
G.	Jan	31 15 9	31 10 7	March.	FEB.	27 19 3	28 3 59
March.	FEB			d. h. m. 25 17 27	MAR.	28 7 47	28 12 15
, ,	2.22.	· · · · · · · · · · · · · · · · · · ·	1 22 13		APRIL	26 20 31	26 19 32
d. h. m. 26 0 0	Mar.O	16 22 15	17 11 26		MAY .	26 9 15	26 2 46
	man. o	31 16 37	31 11 17		JUNE .	24 21 59	24 11 5
	APRIL	30 5 21	30 1 27		JULY.	24 10 43	23 21 30
	MAY.	29 18 5	29 16 30		Aug	22 23 27	22 10 46
	JUNE.	28 6 49	28 7 56		SEPT.	21 12 11	21 3 0
	July.	27 19 33	27 23 6		Oct	21 0 55	20 21 27
	Aug.	26 8 17	26 13 30		Nov.	19 13 39	<b>1</b> 9 16 48
	SEPT.	24 21 1	25 2 56		DEC	19 2 23	19 11 26
	Oct.	24 9 45	24 15 26				
	Nov.	22 22 29	23 3 10		0	2 20 45	2 15 2
	DEC.	22 11 13	22 14 12	364.	JAN	17 15 8	18 3 58
367.		20 23 58	21 0 35	В.	FEB	16 3 52	16 17 35
507. F.	JAN	19 12 42	19 10 30	25 23 16	Mar	17 16 36	18 4 18
	FEB	(6 7 4	6 19 46		APRIL	16 5 20	16 12 41
26 5 49	N	21 1 26	20 20 24		MAY .	15 18 4	15 19 40
20 5 45	MAR	19 14 10	19 6 59		JUNE .	<b>∫14</b> 6 48	14 2 20
1	APRIL	19 2 54	18 18 56		0	29 1 10	29 5 8
1	MAY . June .	17 15 38	17 8 38		JULY .	<b>13 1</b> 9 <b>3</b> 2	13 9 47
	JULY.	17 4 22	16 23 59		Aug	<b>12</b> 8 16	11 19 5
	AUG.	(15 17 6	15 16 23		SEPT	10 21 0	10 7 3
	Aug.	30 11 28	30 2 31		Ocr	10 9 44	9 22 10
	SEPT.	14 5 50	14 9 0		Nov	8 22 28	8 15 58
	Oct	13 18 34	14 1 0		DEC	8 11 12	8 11 21
	Nov.	12 7 18	12 15 46		0	23 5 34	23 5 47
	DEC.	11 20 2	12 4 58		_	0.00 55	
000	1 _	10 8 46	10 16 33	363.	JAN	6 23 57	7 6 41
366.	JAN FEB	(8 21 30	9 2 33		FEB	5 12 41 7 1 25	6 0 20
	FEB.	23 15 52	23 21 13	26 5 5	MAR.	7 1 25 5 14 9	7 15 13 6 3 2
06 11 90	MAR.	10 10 15	10 11 24		APRIL	1	
26 11 38	APRIL	8 22 59	8 19 39		MAY .	5 2 58 ( <b>3 1</b> 5 37	5 12 12 3 19 38
	MAY.	8 11 43	8 4 13		JUNE.	18 9 59	18 5 58
	JUNE .	7 0 27	6 14 6		JULY.	3 4 21	3 2 29
1	JULY.	6 13 11	6 2 7		JULY .	(117 5	1 9 47
	Aug.	(5 1 55	4 16 37		Αυσ	31 5 49	30 18 33
	0	19 20 17	19 19 7		SEPT.	29 18 33	29 5 85
	SEPT.	3 14 39	3 9 21		Oct	29 7 17	28 19 20
	Oct.	3 3 23	3 3 26		Nov.	27 20 1	27 11 42
	Nov.	1 16 7	1 21 34		0	(12 14 23	12 21 21
	DEC.	(1 4 51	1 14 32		DEC.	27 8 45	27 5 55
	، ،ناھرىد	30 17 35	81 5 25				000
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 362.		d. h. m.	d. h. m.	B.C. 359.		d. h. m.	d. h. m.
G. March.	JAN	25 21 29	26 0 44	c. March.	JAN	22 12 39	22 8 34
d. h. m.	<b>Гев.</b> .	24 10 13	24 18 43	d. h. m.	FEB	21 1 23	20 20 4
26 10 53	MAR	25 22 57	26 10 37	<b>26 4 20</b>	MAR	22 14 7	22 8 18
	APRIL	24 11 41	24 23 47		0	∫ 6 8 <b>2</b> 9	6 20 8
	MAY .	24 0 25	24 10 21		APRIL	(21 2 51	20 21 39
	a	7 18 47	7 9 0		MAY .	20 15 35	20 12 8
	June .	(22 13 9	22 19 1		JUNE.	19 4 19	19 3 26
	JULY.	22 1 53	22 2 46		JULY.	18 17 3	18 18 56
	Aug	20 14 37	20 10 89		Aug	17 5 47	17 10 2
	SEPT	19 3 21	18 19 32		SEPT	∫15 18 31	16 0 16
ľ	Oct	18 16 5	18 6 3		0	(30 12 53	29 22 24
	Nov	17 4 49	16 18 33		Ост	15 7 15	15 13 30
	Dec	16 17 33	16 9 4		Nov	13 19 59	14 1 49
					DEC	13 8 43	13 13 14
361.	JAN	15 6 18	15 1 17				
F.E.	FEB.	13 19 2	13 18 30	358.	JAN	11 21 28	11 23 52
25 16 42	MAR.	14 7 46	14 11 46	в.	FEB	10 10 12	10 9 47
20 10 32	APRIL	12 20 30	13 4 2	26 10 9	MAR	11 22 56	11 19 21
	MAY.	12 20 30	12 18 30		APRIL	10 11 40	10 5 15
	JUNE .	10 21 58	11 6 52		MAY .	10 0 24	9 16 13
1	July.	10 10 42	10 17 24		JUNE.	8 13 8	8 4 53
	Aug	8 23 26	9 2 47		JULY.	8 1 52	7 19 26
	SEPT.	7 12 10	7 11 54		Aug	6 14 36	6 11 31
	Oct.	7 0 54	6 21 28	1	SEPT	5 3 20	5 4 28
	Nov.	5 13 38	5 7 56		0	19 21 42	19 11 27
1	DEC.	5 2 22	4 19 29		Ocr	4 16 4	4 21 8
		J			Nov	<b>3 4 4</b> 8	8 12 45
					DEC	2 17 32	8 2 56
360.	JAN	3 15 7	3 8 10				
D.	FEB	2 8 51	1 21 58	057	T	(1 6 17	1 15 22
25 22 31	MAR	3 16 35	8 12 49	357.	JAN	80 19 1	81 2 2
	APRIL	2 5 19	2 4 25		FEB	29 7 45	29 11 18
1	0	16 23 41	17 4 19	25 15 58	MAR	29 20 29	29 19 25
l	MAY .	1 18 3	1 20 13		APRIL	28 9 18	28 8 82
		31 6 47	81 11 29		May .	27 21 57	27 12 29
1	JUNE .	29 19 31	30 1 38		JUNE .	26 10 41	25 23 15
	JULY.	29 8 15	29 14 27		JULY .	25 28 25	25 12 81
	Aug	27 20 59	28 2 6		0	9 17 47	9 18 58
	SEPT	26 9 48	26 13 8		Aug	24 12 9	24 4 19
	0	(11 4 5	10 18 40		SEPT	23 0 58	22 22 2
	Oct	25 22 27	25 23 47	1	Ocr	22 13 37	22 16 80
	Nov.	24 11 11	24 10 34		Nov.	21 2 21	21 10 24
	DEC	28 28 55	23 21 28	-	DEC	20 15 5	21 2 80
	1						

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C.		d. h. m.	d. h. m.	B.C. 353.		d. h. m.	d. h. m.
356.	JAN	19 3 49	19 16 11	C.B.	JAN	16 18 59	16 19 12
F. 1	0	( 2 22 11	2 17 20	March. $d. h. m.$	FEB	15 7 43	15 13 38
March. d. h. m.	FEB	17 16 33	18 3 19	25 15 13	MAR.	15 20 27	16 6 33
25 21 46	Mar	19 5 17	19 12 16		APRIL	14 9 11	14 21 3
	APRIL	17 18 1	17 19 47		MAY .	(13 21 55	14 8 53
	MAY.	17 6 45	17 2 49	•	0	28 16 17	28 6 35
	JUNE.	15 19 29	15 10 22		June .	12 10 39	12 18 29
	JULY.	(15 8 13	14 19 37		JULY .	11 23 23	12 2 41
	0	80 2 35	30 8 40		Aug.	10 12 7	10 10 35
	Aug	13 20 57	13 7 26		SEPT	9 0 51	8 19 3
	SEPT	12 9 41	11 22 18		Oct.	8 13 35	
	Oct	11 22 25	11 15 52		Nov.	7 2 19	8 4 51
	Nov	10 11 9	10 11 4		0	21 20 41	6 16 24
	DEC	9 23 53	10 11 4		l _ '	<b>C</b>	22 5 51
	DE0	0 20 00	10 0 21		DEC	6 15 3	6 5 51
355.	JAN	(81238	9 0 6	352.	JAN	5 3 48	4.01.0
E.	0	23 7 0	23 1 24	A.	FEB.	ı	4 21 6
	FEB	7 1 22	7 15 10	25 21 2	MAR.	3 16 32 5 5 16	3 13 39
26 3 35	MAR.	8 14 6	9 3 12	20 21. 2			5 6 46
1 -0 0 00	APRIL	7 2 50	7 12 33		APRIL	3 18 0	3 23 28
	MAY.	6 15 34	6 20 2		MAY.	3 6 44	3 14 51
	JUNE .	5 4 18	5 2 42		0	\18 1 6	17 18 50
	JULY .	(417 2	4 9 38		JUNE.	1 19 28	2 4 21
	0	19 11 24	19 15 45		JULY.	1 8 12	1 15 53
	Aug	3 5 46				(30 20 56	31 1 58
	SEPT.	1 18 30			Aug	29 9 40	29 11 21
	OEI I	(1 7 14	$   \left\{     \begin{array}{cccc}       1 & 4 & 35 \\       80 & 18 & 12   \end{array}   \right. $		SEPT	27 22 24	27 20 52
1	Ocr	30 19 58	`		Oct	27 11 8	27 7 0
	Nov	29 8 42	30 10 47		, O	<b>11</b> 5 80	11 8 37
	DEC	28 21 26	29 5 33 29 1 4		Nov	(25 23 52	25 18 1
	DEC	20 21 20	29 1 4		DEC.	<b>25 1</b> 2 <b>3</b> 6	25 6 1
354.	JAN	27 10 11	27 19 40	051	Tan	04 1 00	00.10.0
D.	FEB.	25 22 55	26 11 57	351. G.	JAN	24 1 20	28 19 2
26 9 24	MAR.	27 11 39	28 1 13		FEB	22 14 4	22 9 4
	APRIL	26 0 23	26 11 34	26 2 51	MAR.	24 2 48	24 0 4
	MAY.	25 13 7	25 19 45		APRIL	22 15 32	22 15 37
	June .	24 1 51	24 2 48		O M	7 9 54	7 11 33
	JULY.	23 14 35	23 9 52		MAY .	(22 4 16	22 7 9
	Aug	22 3 19	21 17 55		JUNE .	20 17 0	20 22 1
	SEPT.	20 16 3	20 3 52	*	JULY .	20 5 44	20 11 42
<b> </b> .	Oct	20 4 47	19 16 18		Aug	18 18 28	19 0 11
	Nov.	18 17 31	18 7 23		SEPT	17 7 12	17 11 43
	0	(31153	3 19 50		Oct	16 19 56	16 22 45
	DEC.	18 6 15	18 0 41		Nov.	15 8 40 14 21 24	15 9 37 14 20 28
					Dec l		

ean rnal linox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
.C.		d. h. m.	d. h. m.	B.C. 347.		d. h. m.	d. h. m.
F.	JAN	13 10 9	13 7 20	B.	JAN	10 1 19	10 13 53
irch.	FEB	11 22 53	11 18 20	March. $d. h. m.$	FEB	8 14 3	9 2 11
h. m. 8 39	MAR	(13 11 37	13 5 51	26 2 6	MAR	10 2 47	10 12 2
0 00	0	28 5 59	28 19 2		APRIL	8 15 31	8 20 1
	APRIL	12 0 21	11 18 20		MAY.	8 4 15	8 3 3
	MAY.	11 13 5	11 8 3		June .	6 16 59	6 10 7
	June .	10 1 49	9 22 56		JULY.	6 5 43	5 18 22
	JULY.	9 14 33	9 14 30		Aug	4 18 27	4 4 50
	Aug.	8 3 17	8 6 4		SEPT.	3 7 11	2 18 13
	SEPT	6 16 1	6 21 4		Oct.	2 19 55	2 10 37
	Oct.	6 4 45	6 11 8		Ocr	(1 8 39	1 5 17
	Nov.	4 17 29	5 0 8	}	Nov	30 21 23	
	DEC.	4 6 13	4 12 5		Des	30 10 7	$\begin{cases} 1 & 0 & 49 \\ 30 & 19 & 31 \end{cases}$
	DEC	# 015	4 12 0		DEC	30 10 1	(30 13 31
49.	JAN	2 18 58	2 23 6		0	<b>14 4 29</b>	13 23 39
E.D.	FEB	,1 7 42	1 9 10	346.	JAN	28 22 52	29 12 0
		1 20 26	1 18 38	Α.	FEB	27 11 36	28 1 29
<b>14</b> 28	MAR.O	16 14 48	17 3 3	26 7 55	MAR	29 0 20	29 12 1
		31 9 10	31 4 0		APRIL	27 13 4	27 20 14
	APRIL	29 21 54	29 14 6		MAY .	27 1 48	27 3 8
	MAY.	29 10 38	29 1 42		JUNE .	25 14 32	25 9 48
	JUNE .	27 23 22	27 15 14		0	(10 8 54	10 11 47
	JULY .	27 12 6	27 6 41		JULY .	25 3 16	24 17 21
	Aug	26 0 50	25 23 28		Aug	23 16 0	23 2 48
	0	( 9 19 12	9 10 43		SEPT	22 4 44	21 14 59
	SEPT	24 13 34	24 16 37		OCT	21 17 28	21 6 10
	Oct	24 2 18	24 9 9		Nov.	20 6 12	19 23 59
	Nov	22 15 2	28 0 21	1	DEC	19 18 56	19 19 17
	DEC	22 3 46	22 13 44			,	
			1		0	3 13 18	8 14 40
48.	JAN	20 16 30	21 1 12	345.	JAN	18 7 40	18 14 28
C.	FEB	19 5 14	19 10 55	G.F.	FEB	16 20 24	17 7 56
	0	∫ 5 28 36	6 4 23	25 13 44	MAR	17 9 8	17 22 39
20 17	MAR	20 17 58	20 19 20		APRIL	15 21 52	16 10 22
	APRIL	19 6 42	19 8 12		MAY.	15 10 86	15 19 81
	MAY .	18 19 26	18 11 26		JUNE .	(18 28 20	14 8 8
	June .	17 8 10	16 21 4		0	28 17 42	28 12 24
	July.	16 20 54	16 9 0		JULY.	13 12 4	13 10 4
	ΑυG	∫15 9 88	14 23 38		Aug	12 0 48	11 17 38
	0	180 4 0	80 8 11		SEPT	10 13 32	10 2 41
	SEPT	13 22 22	18 16 39	, ,	Ocr	10 2 16	9 18 56
	Ocr	13 11 6	13 11 6		Nov	8 15 0	8 3 43
	Nov	11 23 50	12 5 38		DEC	(8 8 44	7 19 54
	DEC	11 12 84	11 22 54		0	122 22 6	28 6 12

Mean		Mean New	True New	Mean	l	Mean New	True New
Vernal Equinox.	Month.	Moon. (O Full Ecl.)	Moon. (O Full Ecl.)	Vernal Equinox.	Month.	Moon. (O Full Ecl.)	Moon. (O Full Ed.)
B.C. 344.		d. h. m.	d. h. m.	B.C. 341.		d. h. m.	d. h. m.
March.	Jan	6 16 29	6 13 49	B.A. March.	JAN	4 7 89	4 6 17
d. h. m.	FEB	5 5 13	5 8 17	d. h. m.	FEB	2 20 23	2 17 1
25 19 32	MAR	6 17 57	7 1 54	25 12 59	MAR	8 9 7	8 8 56
	APRIL	5 6 41	5 17 37		APRIL	<b>β</b> 1 21 51	1 15 85
	MAY.	4 19 25	5 6 46		0	<b>\16 16 18</b>	17 8 37
Ì	June.	3 8 9	3 17 28		MAY.	<b>∫ 1</b> 10 85	1 4 25
	0	18 2 31	17 15 49		MLAI.	<b>\ 28 19</b>	<b>3</b> 0 <b>18 3</b> 8
	July.	2 20 53	3 2 22		June .	29 12 8	<b>2</b> 9 9 56
	Aug	(1 9 37	1 10 29		JULY.	29 0 47	29 1 45
	Aug.	30 22 21	30 18 46		Aug	27 18 81	27 17 21
	SEPT	29 11 5	29 4 1		SEPT	26 2 15	26 8 12
	Oct	28 23 49	28 14 45		0	ζ10 20 <b>3</b> 7	10 7 37
ŀ	Nov	27 12 33	27 3 14		Ocr	25 14 59	25 22 0
	DEc	27 1 17	26 17 27		Nov	24 8 48	24 10 89
					DEC	28 16 27	28 22 10
343.	JAN	25 14 2	25 9 12	340.	Jan	22 5 11	22 8 88
D.	FEB	24 2 46	24 1 53	G.	FEB	20 17 55	20 18 4
26 1 21	MAR	25 15 30	25 18 41	25 18 48	MAR.	22 6 89	22 8 9
	APRIL	24 4 14	24 10 42	20 10 10	APRIL	20 19 23	20 12 88
	MAY.	23 16 58	24 1 10		MAY.	20 8 7	19 28 6
	JUNE.	22 5 42	22 13 47		JUNE.	18 20 51	18 11 82
	JULY .	21 18 26	22 0 44		July.	18 9 85	18 2 6
	Aug	20 7 10	20 10 38		Aug.	16 22 19	16 18 26
	SEPT	18 19 54	18 20 15		SEPT.	(15 11 8	15 11 45
	Ocr	18 8 38	18 6 13		0	80 5 25	29 19 52
	Nov	16 21 22	16 16 51		Oct.	14 28 47	15 4 59
	DEC	16 10 6	16 4 19		Nov.	18 12 81	18 21 9
					DEC.	18 1 15	18 11 87
342.	JAN	14 22 50	14 10 05			20 2 20	20 22 01
C.	FEB.	13 11 34	14 16 37 13 5 52	339.	JAN	11 14 0	12 0 0
26 7 10	MAR.	15 11 34		F.	FEB	10 2 44	10 10 27
20 7 10	APRIL	(13 13 2	14 20 6	26 0 87	MAR	11 15 28	11 19 17
1	O	28 7 24	13 11 11		APRIL	10 4 12	10 8 7
1	MAY.	13 1 46	28 11 54 13 2 40		MAY .	9 16 56	9 10 52
	JUNE .	11 14 30	13 2 40 11 17 58		JUNE .	8 5 40	7 19 84
	JULY.	11 14 30	11 17 58		July .	7 18 24	7 6 14
	Aug.	9 15 58	9 21 46		Aug	(678	5 19 81
	SEPT.	8 4 42	8 10 0		0	21 1 22	21 2 40
	Oct.	7 17 26	7 21 30		SEPT	4 19 52	4 11 81
	0	22 11 48	22 2 32		Ост	4 8 86	4 5 84
	Nov.	6 6 10	6 8 38		Nov	2 21 20	8 0 26
1	DEC.	5 18 54	5 19 31		DEC	(2104	2 18 87
		0 10 04	0 10 91			81 22 48	•••
<u> </u>	!	1			-		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
		d. h. m.	d. h. m.	B.C. 335.		d. h. m.	d. h. m.
B.C. 338.		c	1 10 53	Α.	Jan	27 2 43	27 2 54
E.	JAN	30 11 32	31 0 30	March.	FEB	25 15 27	25 20 54
March.	FEB	(		d. h. m. 25 23 52	Mar	27 4 11	27 13 32
	0	14 5 54	14 1 4		APRIL	25 16 55	26 3 57
d. h. m.		(1 0 17	1 11 26		MAY.	25 5 39	25 15 53
26 6 25	Mar	30 13 1	30 20 8		0	(9 0 1	8 13 32
	APRIL	29 1 45	29 3 24		JUNE.	23 18 23	24 1 42
	MAY.	28 14 29	28 10 13		JULY.	23 7 7	23 10 26
	JUNE .	27 3 13	26 17 43		Aug	21 19 51	21 18 34
	JULY.	26 15 57	26 2 57		SEPT.	20 8 35	20 3 27
	_	(10 10 19	10 16 9		Oct	19 21 19	19 13 32
	Aug.	25 4 41	24 14 54		Nov.	18 10 3	18 1 10
	SEPT.	23 17 25	23 5 54			(3 4 25	3 14 16
	OCT.	23 6 9	22 23 40		DEC	17 22 47	17 14 25
1	Nov.	21 18 53	21 19 1		DEC	1	
ì	DEC.	21 7 37	21 14 23	334.	JAN.	16 11 31	16 5 14
				G.	FEB	15 0 15	14 21 18
337. D.C.	JAN	19 20 21	20 8 5	26 5 41	MAR.	16 12 59	16 13 49
D.0.	_ 0	3 14 43	3 9 42		APRIL	15 1 48	15 6 9
	FEB.	(18 9 5	18 23 3		MAY .	114 14 27	14 21 26
25 12 14	MAR.	18 21 49	19 10 56		0	29 8 49	29 2 9
	APRIL	17 10 33	17 20 7		June .	13 3 11	13 11 5
	MAY .	16 23 17	17 8 29		JULY	12 15 55	12 23 0
	JUNE .	15 12 1	15 10 9		Aug.	11 4 89	11 9 84
	JULY.	\{ 15 0 45	14 17 10		SEPT.	. 9 17 23	9 19 30
	0	(29 19 7	29 22 40		Ocr.	967	9 5 27
	Aug.	13 13 29	13 1 39		Nov.	. 7 18 51	7 15 58
,	SEPT.	12 2 13	11 12 30	}	0	22 18 18	22 16 85
	Oct	11 14 57	9 18 51		DEC.	7 7 85	7 2 56
i	Nov	9 16 25	9 18 32				
	DEC	9 10 20		333.	Jan.	. 5 20 20	5 14 41
336.	JAN	8 5 10	8 8 54	F.E.	FEB.	. 494	1 7
В.	FEB	6 17 54	7 8 16	25 11 30	MAR.	· 1	1
25 18 8	MAR.	8 6 38	8 19 22		APRII		
	APRIL	6 19 22	7 8 30		MAY	. \ 2 28 16	1 .
	MAY .	686	6 18 49		0	(17 17 88	1
	JUNE .	4 20 50	5 3 5		JUNE		1
	July .	1	4 10 18		JULY	$\int 1 0 44$	
	Aug.		2 17 37			(80 18 28	1
	SEPT.	$\int 1 11 2$		-	Avg.		
	1	(50 25 40	1		SEPT.		1
	Oct.	. 30 12 30	ł		Oct.	. 27 8 40	
	Nov.	29 1 14			Nov.	. 25 16 24	
	_ 0	<b>∫13 19 36</b>			DEC.	. 25 5 8	25 5 28
	DEC.	.   128 13 58	3 28 8 45	H			<u> </u>

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 332.		d. h. m.	d. h. m.	B.C. 329.		d. h. m.	d. h. m.
D.	Jan	23 17 53	23 15 56	A.G.	JAN	21 9 3	21 22 13
$\begin{array}{cccc} \mathbf{March.} \\ \mathbf{d.} & h. & m. \end{array}$	FEB	22 6 37	22 2 27	d. $h$ . $m$ .	FEB	19 21 47	20 10 22
25 17 18	MAR.	23 19 21	23 13 23	25 10 45	MAR.	20 10 31	20 19 57
	APRIL	22 8 5	22 1 19		APRIL	18 23 15	19 3 42
•	MAY .	21 20 49	21 14 39		MAY.	18 11 59	18 10 32
	JUNE .	20 9 33	20 5 25		June .	17 0 43	16 17 29
	JULY .	19 22 17	19 21 10		JULY.	16 18 27	16 1 45
	Aug.	18 11 1	18 13 11		Aug.	15 2 11	14 12 18
	SEPT.	16 23 45	17 4 46		SEPT.	13 14 55	13 1 50
	Ост.	16 12 29	16 19 24		Ост	13 3 39	12 18 23
	Nov.	15 1 13	15 8 50		Nov.	11 16 23	11 13 12
		14 13 57	14 20 59				
	DEC	14 19 01	14 20 55		DEC	11 5 7	11 8 49
331.	JAN	13 2 41	13 7 52	328.	JAN	( 9 17 51	10 3 31
C.	FEB	11 15 25	11 17 37	F.	0	24 12 18	24 8 9
25 23 7	MAR	(13 4 9	13 2 37		FEB	8 6 35	8 19 53
	0	27 22 31	28 10 10	25 16 34	MAR.	9 19 19	10 9 12
	APRIL	11 16 53	11 11 30	20 10 01	APRIL	8 8 3	8 19 35
	MAY .	11 5 37	10 21 10		MAY,	7 20 47	8 3 42
	JUNE .	9 18 21	9 8 28		June .	6 9 31	1
	JULY.	9 7 5	8 21 55		JULY.	(5 22 15	
	Aug.	7 19 49	7 13 31		0	1.7	5 17 19
	SEPT.	(6 8 33	6 6 39			(20 16 37	20 18 31
	0	21 2 55	20 19 4		Aug	4 10 59	4 1 3
	Oct	5 21 17	6 0 18		SEPT	2 23 43	2 10 42
	Nov.	4 10 1	4 17 22		Ocr	2 12 27	$ \begin{cases} 1 & 23 & 2 \\ 31 & 14 & 18 \end{cases} $
	DEC.	3 22 45	4 8 54		Nov	1 1 11	1
	D20	0 22 30	# 0 0#		Τ.	(30 13 55	30 8 3
330.	T	0.14.00	2 22 21		DEC	<b>30 2 3</b> 9	80 8 11
B.	JAN	2 11 30	2 22 54				
	FEB	1 0 14	1 9 43		0	∫13 21 2	13 23 26
26 4 56	MAR.	2 12 58	2.19 9	327. E.	JAN	28 15 24	28 22 7
	0	17 7 20	17 11 28		FEB	27 4 8	27 15 22
	APRIL	1 1 42	1 3 11	25 22 23	MAR	28 16 52	29 5 55
	36.	30 14 26	30 10 41		APRIL	27 5 36	27 17 85
	MAY.	30 3 10	29 18 39		MAY .	26 18 20	27 2 47
	June :	28 15 54	28 4 7		JUNE .	25 7 4	25 10 28
	JULY.	28 4 38	27 16 4		0	(10 1 26	9 19 0
	Aug	26 17 22	26 6 48		JULY.	24 19 48	24 17 45
,	20	{10 11 44	10 11 26		Aug	23 8 32	28 1 39
	SEPT	(25, 6, 6)	25 0 5		SEPT	21 21 16	21 11 0
	Oct	24 18 50	24 18 54		Ост	21 10 0	20 22 25
	Nov.	23 7 34	23 13 45		Nov	19 22 44	19 12 11
	DEC	22 20 18	28 7 12		DEC	19 11 28	19 4 9
						,	

	,			OIVIII LIME	•		
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 326. b. March. d. h. m. 26 4 11	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	d. h. m.  { 3 5 50 18 0 12 16 12 56 18 1 40 16 14 24 16 3 8 {14 15 52 29 10 14 14 4 86 12 17 20 11 6 4 10 18 48 9 7 82 8 20 16	d. h. m. 3 14 58 17 21 40 16 15 40 18 8 57 17 0 27 16 13 38 15 0 33 28 22 43 14 9 48 12 18 18 11 3 1 10 12 37 8 23 32 8 11 55	B.C. 323. G. March. d. h. m. 25 21 38	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT O NOV DEC	d. h. m.  14 15 22 13 4 6 14 16 50 (18 5 34) (27 23 56 12 18 18 11 7 2 10 19 46 9 8 30 7 21 14 (7 9 58) (22 4 20 5 22 42 5 11 26	d. h. m.  14 15 2 13 1 19 14 11 41 12 22 46 28 10 57 12 11 9 11 1 8 10 16 29 9 8 37 8 0 47 7 16 15 21 15 57 6 6 32 5 19 29
325. c.b. 25 10 0	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	7 9 1 5 21 45 6 10 29 4 23 18 4 11 57 8 0 41 2 18 25 { 1 2 9 80 14 53 29 3 87 28 16 21 27 5 5 26 17 49	7 1 49 5 17 0 6 9 6 5 1 26 4 17 15 3 7 48 2 20 43 1 8 8 30 18 31 29 4 41 28 15 1 27 1 47 26 13 6	<b>322.</b> F. 26 3 27	JAN FEB MAR APRIL MAY JUNE JULY . AUG SEPT O OCT NOV	4 0 11 2 12 55 4 1 39 2 14 23 { 2 3 7 { 31 15 51 30 4 35 29 17 19 28 6 3 26 18 47 { 11 13 9 26 7 31 24 20 15	4 6 59 2 17 9 4 2 15 2 10 51 1 19 48 31 6 1 29 18 18 29 8 53 28 1 31 26 19 16 11 4 26 26 18 0 25 5 85
324. a. 25 15 49	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT O Nov DEC	25 6 84 28 19 18 25 8 2 28 20 46 \$ 15 8 (28 9 30 21 22 14 21 10 58 19 23 42 18 12 26 18 1 10 \$ 1 19 32 16 13 54 16 2 38	25 1 0 23 13 40 25 3 17 28 17 52 8 19 25 23 9 8 22 0 29 21 15 18 20 5 10 18 18 2 18 6 5 1 10 32 16 17 31 16 4 30	321. E.D. 25 9 16	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG OCT NOV DEC	24 8 59  22 21 44  21 10 28  21 23 12  20 11 56  20 0 40  18 13 24  18 2 8  16 14 52  31 9 14  15 3 36  14 16 20  13 5 4  12 17 48	24 20 13  28 8 36 21 18 47 22 8 15 20 10 45 19 18 12 18 2 42 17 18 19 16 2 41 81 10 52 14 18 54 14 18 14 18 8 25 18 2 50

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 320.	Jan	d. h. m.	d. h. m.	B.C. 317. G.F. March.	Jan	d. h. m.	d. h. m. 8 16 47
March.	FEB	§ 9 19 16	10 8 41	d. $h.$ $m.$	FEB	7 10 26	7 10 27
d. $h.$ $m.$	0	<b>\24 13 3</b> 8	24 8 41	25 8 31	MAR	7 23 10	8 4 1
25 15 4	MAR	11 8 0	11 19 24		APRIL	6 11 54	6 20 24
	APRIL	9 20 44	10 3 50		MAY.	6 0 38	6 10 45
	MAY .	9 9 28	9 10 53		June.	∫ 4 13 22	4 22 49
	June .	7 22 12	7 17 36		0	19 7 44	18 20 30
	JULY.	7 10 56	7 1 5		JULY.	4 2 6	4 8 57
	AUG	5 23 40	5 10 25		Aug	2 14 50	2 17 55
	0	\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)	20 23 42		_	f 1 3 34	1 2 40
	SEPT	4 12 24	3 22 30		SEPT	180 16 18	30 11 57
	Oct	4 1 8	3 13 40		Oct	30 5 2	29 22 18
	Nov	2 13 52	2 7 33		Nov	28 17 46	28 9 57
	DEC	1 2 2 36	2 3 0		0	(13 12 8	13 22 38
1	DEC	31 15 20	31 22 20		DEC	128 6 30	27 22 57
			1	l			
319.	JAN	30 4 5	30 15 59	316.	JAN	26 19 15	26 13 17
в.	0	ſ13 22 27	13 17 53	E.	FEB	25 7 59	25 4 42
	FEB	128 16 49	(1 6 47	25 14 20	MAR	26 20 43	26 20 45
25 20 53	MAR	30 5 33	30 18 30		APRIL	25 9 27	25 12 47
	APRIL	28 18 17	29 3 35		MAY .	24 22 11	25 4 0
	MAY .	28 7 1	28 10 55		0	( 8 16 33	8 9 29
	JUNE.	26 19 45	26 17 39		JUNE .	123 10 55	23 17 51
	JULY .	26 8 29	26 0 51		JULY .	22 23 39	23 6 12
	0	(10 2 51	10 5 40		Aug.	21 12 23	21 17 20
	Aug	124 21 13	24 9 33		SEPT	20 1 7	20 3 48
	SEPT	23 9 57	22 20 35		Oct	19 18 51	19 14 11
	Oct	22 22 41	22 10 25		Nov	18 2 35	18 0 49
1	Nov	21 11 25	21 3 1	1	0	£ 2 20 57	3 0 38
	DEC	21 0 9	20 21 31	1	DEC	17 15 19	17 11 49
318.	Jan	19 12 54	19 16 38	315.	Jan	16 4 4	15 23 16
Δ.	FEB	18 1 38	18 10 45	D.	FEB	14 16 48	14 11 14
26 2 42	MAR	19-14-22	20 2 37	25 20 9	MAR.	16 5 32	16 0 2
	APRIL	18 3 6	18 15 41		APRIL	14 18 16	14 13 53
	MAY .	17 15 50	18 2 2		MAY .	(14 7 0	14 4 43
	June .	16 4 34	16 10 25		0	29 1 22	29 2 29
	JULY .	15 17 18	15 17 54		June .	12 19 44	12 20 4
	Aug.	14 6 2	14 1 32		JULY .	12 8 28	12 11 20
	SEPT.	12 18 46	12 10 14		Aug	10 21 12	11 1 58
	Ост.	12 7 30	11 20 41		SEPT.	9 9 56	9 15 38
	Nov.	10 20 14	10 9 18		Oct.	8 22 40	9 4 20
	DEC.	(10 8 58	10 0 7		Nov.	7 11 24	7 16 16
	0	25 3 20	25 13 23		DEC.		1
					1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New
B.C.				Equinox.		(O Full Ecl.)	
314. c.	Jan	d. h. m. 5 12 52	d. h. m. 5 14 14	B.C. 311.		d. h. m.	d. h. m.   2 15 24
d. $h.$ $m.$	FEB	4 1 36	4 0 27	F.	Jan	31 16 46	2 10 21
26 1 57	MAR	5 14 20	5 10 26	March.	FEB		1 6 22
	APRIL	4 3 4	3 20 48	d. h. m.	W	$\int 2 \ 5 \ 30$	2 18 22
	MAY .	3 15 48	3 8 14	25 19 24	MAR	31 18 14	(1 3 44
	June .	2 4 32	1 21 15		APRIL	30 6 58	30 11 15
	JULY .	∫ 1 <b>17</b> 16	1 11 56		MAY.	29 19 42	29 17 57
		(31 6 0	31 3 58		June .	28 8 26	28 0 54
	Aug	29 18 44	29 20 22		JULY.	27 21 10	27 9 13
	SEPT	28 7 28	28 12 33		Aug	26 9 54	25 19 55
	Oct	27 20 12	28 3 45		SEPT	24 22 38	24 9 36
	Nov	26 8 56	26 17 34		Oct	24 11 22	24 2 17
	DEC	25 21 40	26 5 49		Nov.	23 0 6 22 <b>1</b> 2 50	22 21 10   22 16 45
	_				DEC	22 12 50	22 10 40
313.	JAN	24 10 25	24 16 33	310.	JAN	21 1 35	21 11 23
B.A.	FEB	22 23 9	23 1 57	E.	0	( 4 19 57	4 16 34
25 7 46	MAR	28 11 58	23 10 30		FEB	19 14 19	20 3 37
	0	$\begin{cases} 7 & 6.15 \\ 22 & 0.87 \end{cases}$	7 17 8	26 1 13	MAR.	21 3 3	21 16 47
	APRIL	21 13 21	21 18 56 21 4 13		APRIL	19 15 47	20 3 2
	MAY. June.	20 2 5	19 15 17		MAY .	19 4 31	19 11 5
	July.	19 14 49	19 4 42		JUNE .	17 17 15	17 18 2
	Aug.	18 3 33	17 20 29		JULY .	17 5 59	17 0 57
	SEPT.	16 16 17	16 14 0		Aug	15 18 43	15 8 54
	0	( 1 10 89	1 8 85		SEPT	14 7 27	13 18 47
	Oct.	16 5 1	16 8 8		Ocr	13 20 11	13 7 16
	Nov.	14 17 45	15 1 39		Nov.	12 8 55	11 22 88
	DEC	14 6 29	14 17 27		DEC	11 21 39	11 16 9
	İ				T	(10 10 28	10 10 59
312.	JAN	12 19 18	13 6 57	309.	Jan	25 4 45	25 8 7
G.	FEB.	11 7 57	11 18 7	2.00	FEB	8 28 7	9 5 87
25 18 85	MAR.	(12 20 41	13 3 12	25 7 2	MAR.	9 11 51	9 22 87
	0	27 15 8	27 18 15	25 1 2	APRIL	8 0 35	8 13 8
	APRIL	11 9 25	11 10 54		MAY.	7 18 19	8 0 42
	MAY .	10 22 9	10 18 6		June .	6 2 3	6 10 1
ĺ	June .	9 10 58	9 1 52		JULY .	5 14 47	5 17 56
	JULY .	8 23 37	8 11 15		0	120 9 9	20 1 39
	Aug	7 12 21	6 23 13		Aug	4 8 31	4 1 33
	SEPT	6 1 5	5 14 7		SEPT	2 16 15	2 9 47
	0	20 19 27	20 19 47		Ocm	2 4 59	1 19 26
	Oct	5 18 49	5 7 40		Oct	81 17 48	1
	Nov	4 2 88	4 2 46		Nov	30 6 27	29 20 42
	DEC	8 15 17	8 21 51		DEC	29 19 11	29 12 20
				II			<u> </u>

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
B.C.		d. h. m.	d. h. m.	B.C. 305.		d. h. m.	d. h. m.
308.	0	(13 13 33	13 23 38	F.E.	JAN	25 23 6	25 23 42
B. March.	JAN	28 7 56	28 5 23	March. $d. h. m.$	FEB	24 11 50	24 9 31
d. h. m.	FEB	26 20 40	26 22 55	25 6 17	MAR	25 0 34	24 19 20
25 12 50	MAR	28 9 24	28 15 52		APRIL	23 13 18	23 5 55
	APRIL	26 22 8	27 7 14		0	(8740	8 18 14
	MAY .	26 10 52	26 20 28		MAY .	23 2 2	22 17 53
	June .	24 23 36	25 7 38		June.	21 14 46	21 7 40
1	0	( 9 17 58	9 5 42		JULY.	21 3 30	20 23 7
	July.	24 12 20	24 17 17		Aug	19 16 14	19 15 38
	Aug	23 1 4	23 2 17		SEPT	18 4 58	18 8 20
	SEPT	<b>21 13 4</b> 8	21 11 25		Oct	17 17 42	18 0 23
	Ocr	21 2 32	20 21 21		0	§ 1 12 4	1 0 25
	Nov	19 15 16	19 8 23		Nov	16 6 26	16 15 8
	Dec	19 4 0	<b>1</b> 8 20 <b>3</b> 8		DEC.	15 19 10	16 4 17
307.	Jan	17 16 45	17 10 6	304.	JAN	14 7 55	14 15 44
▲.	FEB	16 5 29	16 0 42	D.	FEB	12 20 39	13 1 36
<b>25 1</b> 8 <b>3</b> 9	MAR	17 18 13	17 16 13	25 12 6	MAR	14 9 23	<b>14 10 1</b> 8
	APRIL	16 6 57	16 8 9		APRIL	(12 22 7	12 18 28
	MAY .	15 19 41	15 23 46		0	27 16 29	28 3 27
	JUNE .	14 8 25	<b>14 14</b> 26		MAY .	12 10 51	12 3 1
	JULY .	13 21 9	14 3 42		JUNE .	10 23 35	10 12 58
	Aug	12 9 53	<b>12 1</b> 5 39		JULY .	10 12 19	10 1 7
	SEPT	10 22 37	<b>11</b> 2 40		Aug	9 1 3	8 15 48
	Oct	10 11 21	10 13 17		SEPT	7 13 47	7 8 43
	Nov	9 0 5	8 23 55		Oct	7 2 31	7 2 55
1	DEC	8 12 49	8 10 46		0	21 20 53	21 13 8
		}			Nov	5 15 15	5 21 5
306.	JAN	7 1 33	6 21 51		DEC	5 3 59	5 14 0
G.	FEB	5 14 17	5 9 17				Ì
26 0 28	MAR	7 3 1	6 21 20	303.	JAN	3 16 43	4 4 46
	APRIL	5 15 45	5 10 21	c.	FEB	2 . 5 27	2 17 2
	MAY .	5 4 29	5 0 30	25 17 55	MAR	3 18 11	4 2 56
	0	19 22 51	20 2 51	ii.	APRIL	2 6 55	2 11 5
	JUNE .	3 17 13	3 15 33	1	MAY.	ſ 1 19 39	1 18 16
	JULY .	3 5 57	3 7 1		MAY.	31 8 23	81 1 81
	Aug	5 1 18 41	1 22 13		JUNE .	29 21 7	29 9 55
		31 7 25	<b>31 12 4</b> 0	1	JULY.	29 9 51	28 20 30
	SEPT	29 20 9	30 2 10		Aug	27 22 35	27 9 59
	Oct	29 8 53	29 14 42		SEPT	26 11 19	26 2 25
	0	<b>13</b> 3 15			Oct.	26 0 3	25 21 0
	Nov.				Nov	24 12 47	24 16 24
	DEC	27 10 21	27 13 24		DEC	24 1 31	24 10 58
	1			1			1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (C Full Ecl.)
B.C. 302. B. March. d. h. m. 25 23 43	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	d. h. m.  22 14 16 21 3 0 7 21 22 22 15 44 21 4 28 20 17 12 19 5 56 18 18 40 17 7 24 { 1 1 46 { 15 20 8 15 8 52 18 21 36 18 10 20	d. h. m.  28	B.C. 299. E. March. d. h. m. 25 17 10	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OOT NOV	d. h. m. { 4 11 3 {19 5 26 17 18 10 19 6 54 17 19 38 17 8 22 {15 21 6 {30 15 28 15 9 50 18 22 34 12 11 18 12 0 2 10 12 46 { 10 1 30 8 10 15 18	d. h. m. 4 22 2 19 0 48 17 17 51 19 11 1 18 3 9 17 17 30 16 5 46 30 3 34 15 16 16 14 1 43 12 10 55 11 20 37 10 7 10 9 18 46
301. A.G. 25 5 32	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG OCT NOV DEC	11 23 5 (10 11 49) (25 6 11 11 0 33 9 13 17 9 2 1 7 14 45 7 3 29 (5 16 13) (20 10 35 4 4 57 3 17 41 2 6 25 (1 19 9 (31 7 58)	12 6 13 10 23 41 25 1 59 11 14 20 10 1 57 9 10 58 7 18 21 7 1 12 5 8 38 20 12 47 3 17 36 3 4 49 1 18 44 1 11 13 31 5 28	298. p. 25 22 59	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV O DEC	24 19 52 8 14 14 7 2 58 8 15 42 7 4 26 6 17 10 5 5 54 20 0 16 4 18 38 3 7 22 1 20 6 1 8 50 30 21 34 29 10 18 (14 4 40 23 23 2	25 6 6 8 7 27 6 21 18 8 12 1 7 3 33 6 19 17 5 10 30 19 16 50 5 0 38 3 13 28 2 1 10 1 12 11 30 22 59 29 9 48 14 8 35 28 20 41
300. F. 25 11 21	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT . NOV DEC	29 20 37 28 9 21 29 22 5 28 10 49 27 23 83 26 12 17 26 1 1 24 13 45 23 2 29 22 15 18 21 3 57 20 16 41	30 0 12 28 18 1 30 9 44 28 22 43 28 9 10 26 17 46 26 1 33 24 9 34 22 18 36 22 5 17 20 17 55 20 8 30	297. c.b. 25 4 48	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV DEC	27 11 47 26 0 81 26 18 15 25 1 59 24 14 48 { 8 9 5 { 28 8 27 22 16 11 21 4 55 19 17 89 17 6 23 17 19 7 17 7 51	27 7 45 25 19 10 26 7 21 24 20 41 24 11 11 8 9 55 23 2 81 22 18 5 21 9 18 19 28 80 19 12 47 18 1 5 17 12 29

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 296.		d. h. m.	d. h. m.	B.C. 293. <sub>E.D.</sub>	Jan. ,	d. h. m.	d. h. m. 13 23 32
March.	JAN	15 20 36	15 23 1	March.	FEB	12 0 30	12 14 23
d. h. m.	FEB	14 9 20	14 8 50	d. h. m. 25 4 3	MAR.	(12 13 14	13 2 12
25 10 36	MAR	15 22 4	15 18 19	25 4 3	O	27 7 36	27 2 50
	APRIL	14 10 48	14 4 9			11 1 58	11 11 23
	MAY .	13 23 32	13 15 7		APRIL		10 18 45
	June.	12 12 16	12 3 53		MAY.	10 14 42	9 1 24
	JULY.	12 1 0	11 18 33		JUNE.	9 3 26	
	Aug	10 13 44	10 10 44		JULY.	8 16 10	8 8 24
1	SEPT	9 2 28	9 3 43		Aug	7 4 54	6 16 51
	Oct	8 15 12	8 20 27		SEPT	5 17 38	5 3 42
	Nov	7 3 56	7 12 9		Oct	5 6 22	4 17 33
	DEC	6 16 40	7 2 17		Nov.	3 19 6	3 10 18
					DEC	3 7 50	3 5 9
295.	JAN	5 5 24	5 14 35			1	
G.	FEB.	3 18 8	4 1 6	292.	_	1 20 34	2 0 38
<b>25</b> 16 25	MAR.	5 6 52	5 10 7	c.	JAN	31 9 18	31 19 4
23 10 23	APRIL	( 3 19 36	3 18 14		FEB. O	15 3 40	15 0 50
1	APRIL	18 13 58	19 0 1			(122 2	2 11 9
	MAY .	3 8 20	3 2 17	25 9 52	MAR	31 10 46	1
1	l _	1 21 4	(1 11 17		APRIL	29 23 30	$\left\{ \begin{array}{ccc} 1 & 0 & 12 \\ 30 & 10 & 22 \end{array} \right.$
	JUNE.	(1 9 48	30 22 11		MAY .	29 12 14	29 18 27
	JULY .	30 22 32	30 11 37		June .	28 0 58	28 1 30
1	1	29 11 16	29 3 36			27 13 42	27 8 39
	Aug		•		JULY.	26 2 26	25 16 51
	SEPT	28 0 0	27 21 28		Aug.	24 15 10	24 2 59
ŀ	0	12 18 22	12 12 12		SEPT.	1	23 15 36
	Oct	1	27 16 1		OCT	24 3 54	
	Nov.	1	26 9 52		Nov.	22 16 38	
	DEC	. 25 14 12	26 1 54		DEC	22 5 22	22 0 12
	_				_		20 10 10
294. F.	JAN.	1	24 15 24	291.	JAN	20 18 7	20 18 48
	FEB.	1	23 2 20	В.	_ 0	4 12 29	4 16 40
25 22 14		1	24 11 8		FEB	(19 6 51	19 13 0
	. 0	7 22 47	1	25 15 40	MAR.	20 19 35	21 5 44
1	APRIL	1	1		APRIL	19 8 19	19 20 8
	MAY.		1		MAY .	18 21 3	19 7 45
	JUNE .	1	20 9 8		JUNE .	1 '	17 17 15
	JULY .	1	19 18 31		JULY.	<b>∫16 22 31</b>	17 1 29
	Aug.	- 1			0	(31 16 58	1
	SEPT.		16 21 38		Aug	1	15 9 27
	0	$\int 2 \ 3 \ 11$	1		SEPT.	13 23 59	13 18 4
	Oct.	. \ \ 16 21 33	16 15 23	.	Oct	13 12 43	13 4 2
	Nov.	. 15 10 17	15 10 41		Nov.	12 1 27	11 15 42
	DEC.	. 14 23 1	15 5 56		DEC.	. 11 14 11	11 5 15
		1.			1		
·						<del>- i</del>	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 290. A. March. d h. m. 25 21 29	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT	d. h. m. (10 2 56 24 21 18 8 15 40 10 4 24 8 17 8 8 5 52 6 18 36 6 7 20 21 1 42 4 20 4 3 8 48 2 21 32 { 1 10 16	d. h. m. 9 20 31 25 8 12 8 13 2 10 6 4 8 22 39 8 13 54 7 3 16 6 14 46 20 12 47 5 0 53 8 10 21 2 19 57 1 6 12		JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT	d. h. m. 6 18 6 5 6 50 6 19 34 5 8 18 4 21 2 19 15 24 3 9 46 2 22 30 { 1 11 14 30 28 58 29 12 42 29 1 26 { 12 19 48	d. h. m. 6 22 17 5 8 15 6 17 35 5 2 54 4 12 59 20 1 26 3 0 39 2 14 18 1 5 52 30 22 47 29 16 0 29 8 35 12 8 58
289. G.F. 25 3 18	DEC  JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	29 0 28 27 18 12 28 1 56 26 14 40 26 3 24 24 16 8 24 4 52 22 17 86 21 6 20 20 19 4 19 7 48 18 20 32	30 17 18 30 5 18 28 18 18 27 8 18 27 23 13 26 14 44 26 6 13 24 21 2 24 10 45 22 28 15 21 10 50 20 21 56 19 8 51 18 19 42	286. c. 25 20 44	Nov DEC  JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT	27 14 10 27 2 54 25 15 38 24 4 22 25 17 6 24 5 50 9 0 12 23 18 34 22 7 18 21 20 2 20 8 46 18 21 30 18 10 14 § 2 4 86	27 23 44 27 13 2 26 0 21 24 9 53 25 18 11 24 1 59 9 10 15 23 10 13 21 19 57 21 8 2 19 22 52 18 16 4 18 10 38 1 21 55
288. E. 25 9 7	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov O DEC	17 9 16 15 22 0 17 10 45 15 28 29 15 12 18 30 6 85 14 0 57 18 18 41 12 2 25 10 15 9 10 3 58 (8 16 87 23 10 59 8 5 21	17 6 80 15 17 26 17 4 55 15 17 22 15 7 6 80 10 17 18 22 0 18 18 87 12 5 16 10 20 19 10 10 21 8 28 25 28 2 47 8 11 22	285. B.A. 25 2 88	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEFT OCT Nov DEC	16 22 58 16 11 42 15 0 27 18 13 11 14 1 55 12 14 39 12 3 23 10 16 7 10 4 51 8 17 35 7 6 19 6 19 3 5 7 47 4 20 31	17 5 11 16 22 21 15 18 11 14 1 18 14 10 58 12 18 48 12 1 45 10 8 51 9 17 12 8 8 51 6 17 29 6 10 4 5 4 52 5 0 25

Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.	TTOTAL	(O Full Ecl.)	O Full Ecl.)	Equinox.		(O Full Ecl.)	O Full Ecl.)
B.C. 284.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
G.	Jan	3 9 15	3 19 2	281.		$(1 \ 0 \ 25)$	
d. $h.$ $m.$	FEB	<b>1</b> 21 59	2 11 18	March.	Jan. O	15 18 47	16 6 35
25 8 22	MAR	3 10 43	4 0 33	2.20.0	_	(30 13 9	30 8 34
	0	(18 5 5	17 23 35	d. h. m.	Feb	29 1 53	29 1 10
	APRIL	1 23 27	2 10 53	25 1 48	MAR	29 14 37	29 17 52 28 9 47
	MAY .	$\begin{bmatrix} 1 & 12 & 11 \\ 21 & 2 & 27 \end{bmatrix}$	1 18 58		APRIL	28 3 21	28 9 47 28 0 9
	_	31 0 55	31 1 49		MAY.	27 16 5 26 4 49	26 12 42
	June.	29 13 39	29 8 31		JUNE.	26 4 49 (10 23 11	10 10 48
	July.	29 2 23	28 16 10		O T	25 17 33	25 23 38
	Aug	27 15 7 (11 9 29	27 1 50   11 15 12		JULY.	24 6 17	24 9 35
	0	$\begin{cases} 11 & 9 & 29 \\ 26 & 3 & 51 \end{cases}$	25 14 13		AUG SEPT	22 19 1	22 19 18
	SEPT	25 16 35	25 5 37		Oct.	22 7 45	22 5 22
	Nov.	24 5 19	23 23 33		Nov.	20 20 29	20 16 5
	DEC.	23 18 3	23 18 52		DEC.	20 9 13	20 3 34
	DEC	20 10 0			1		4 15 7
283.	JAN	22 6 48	22 13 57	200	0	$\begin{cases} 4 & 3 & 35 \\ 18 & 21 & 58 \end{cases}$	18 15 52
F.	FEB	20 19 32	21 7 14	280. B.	JAN.	17 10 42	17 5 4
	0	$\begin{cases} 7 & 13 & 54 \end{cases}$	7 9 56		FEB	18 23 26	18 19 15
25 14 11	MAR.	22 8 16	22 21 44	25 7 37	APRIL	17 12 10	17 10 17
	APRIL	20 21 0	21 9 14		MAY.	17 0 54	17 1 45
	MAY .	20 9 44	20 18 16		June .	(15 13 38	15 17 0
	JUNE.	18 22 28	19 1 45		0	30 8 0	30 0 16
	JULY.	1 440 00 70	18 8 50 16 16 31		JULY.	15 2 22	15 7 29
	Aug.	31 18 18	31 20 4		Aug	13 15 6	13 20 50
	SEPT.		15 1 45		SEPT	12 3 50	12 9 8
	OCT.	15 1 04	14 13 11		Oct	11 16 34	11 20 42
1	Nov.		13 3 7		Nov	10 5 18	10 7 51
	DEC.	10 0 50	12 19 25		DEC	9 18 2	9 18 46
000					0	24 12 24	24 16 34
282.	JAN.	.   11 15 37 .   (10 4 21	11 13 20	279.	JAN	8 6 46	8 5 29
	FEB.	$\begin{cases} 10 & 4 & 21 \\ 24 & 22 & 43 \end{cases}$	l .	Α.	FEB.	6 19 30	6 16 6
25 20 0	MAR.	1 -		25 13 26	MAR.	8 8 14	8 2 58
AU 20 0	APRIL	1			APRIL	6 20 58	6 14 34
	MAY				MAY .	6 9 42	6 3 24
	JUNE				June .	ſ 4 22 26	4 17 89
	JULY	1	1		0	19 16 48	19 17 22
	Aug.				JULY .	4 11 10	4 9 1
	SEPT.				Aug.	2 23 54	3 0 54
	Ост.	. 4 10 18		1	SEPT.	1 12 38	1 16 85
	Nov.	. 2 22 57	2 14 1		Oct.	$\int 1 \cdot 1 \cdot 22$	1
	D	( 2 11 41	l.		001.	` \₹30 14 €	
	DEC.	·  {	31 16 51		Nov.	1	1
				\\	DEC.	. 28 15 34	28 21 22

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 278.		d. h. m.	d. h. m.	B.C. 275.		d. h. m.	d. h. m.
G. March.	JAN	27 4 19	27 7 40	C.	JAN	23 19 29	24 7 30
d. $h.$ $m.$	FEB	25 17 3	25 17 4	March. $d. h. m.$	FEB	22 8 13	22 22 14
25 19 15	MAR	27 5 47	27 2 3	25 12 41	MAR	23 20 57	24 9 53
	APRIL	25 18 31	25 11 25		0	7 15 19	7 9 53
	MAY .	25 7 15	24 22 1		APRIL	22 9 41	22 18 55
	June .	23 19 59	23 10 32		MAY .	21 22 25	22 2 13
	JULY.	23 8 43	23 1 14		June.	20 11 9	20 8 52
	Aug	21 21 27	21 17 43		July.	19 23 53	19 15 58
	SEPT	20 10 11	20 11 9		Aug	18 12 37	18 0 37
	Oct	19 22 55	20 4 25		SEPT	17 1 21	16 11 40
	Nov	18 11 39	18 20 35		0	∫ 1 19 <del>4</del> 3	2 1 47
	DEC	18 0 23	18 10 57		Ocr	16 14 5	16 1 37
					Nov	15 2 49	14 18 23
<i>2</i> 77.	JAN	16 13 8	16 23 14		DEC	14 15 33	14 13 8
F.E.	FEB	15 1 52	15 9 31	0=4	_		
25 1 4	MAR	15 14 36	15 18 11	274.	JAN	13 4 18	13 8 27
	APRIL	∫14 3 20	14 1 55		FEB	$\begin{cases} 11 & 17 & 2 \\ 22 & 17 & 2 \end{cases}$	12 2 40
	0	128 21 42	29 6 45	0= 10 00	0	(26 11 24	26 9 1
	MAY .	13 16 4	13 9 38	25 18 30	MAR	13 5 46	13 18 32
	JUNE.	12 4 48	11 18 23		APRIL	11 18 30	12 7 28
	July .	11 17 32	11 5 11		MAY.	11 7 14	11 17 38
	Aug	10 6 16	9 18 40		JUNE.	9 19 58	10 1 49
	SEPT	8 19 0	8 10 53		July.	9 8 42	9 9 3
	Ocr	∫ 8 7 44	8 5 4		AUG Sept	7 21 26 6 10 10	7 16 28
	0	123 2 6	22 20 57		Oct.	6 10 10 5 22 54	6 0 59 5 11 23
	Nov	6 20 28	6 23 59		Nov.	4 11 38	4 0 5
	DEC	6 9 12	6 18 8		DEC.	4 0 22	8 15 12
					DEC	# U ZZ	0 10 12
276.	JAN	4 21 57	5 10 17	273.	JAN.	2 13 6	2 8 15
D.	FEB	3 10 41	3 23 43	A.G.	FEB	(1 1 50	1 2 20
25 6 58	Mar	4 23 25	5 10 26		0	15 20 12	16 1 15
	APRIL	∫ 3 12 9	3 18 57	05 0 30		( 1 14 84	1 20 18
	0	(18 6 81	18 7 42	25 0 19	MAR.	(81 8 18	81 12 41
	MAY .	8 0 58	8 2 6		APRIL	29 16 2	80 2 56
	June .	1 13 37	{ 1 8 56		MAY .	29 4 46	29 14 44
	JULY.	$\begin{cases} 1 & 2 & 21 \end{cases}$	180 16 29		JUNE .	27 17 80	28 0 80
		(30 15 5	30 1 54		July .	27 6 14	27 9 6
	Aug	29 8 49	28 14 2		0	∫11 0 36	10 15 25
	SEPT	27 16 88	27 5 17		Aug	25 18 58	25 17 28
	0	$\begin{cases} 12 & 10 & 55 \\ 27 & 10 & 10 \end{cases}$	12 12 51		SEPT	2 <b>4</b> 7 <b>4</b> 2	24 2 30
	Oct.	(27 5 17	26 28 18		Ocr	28 20 26	28 12 44
	Nov.	25 18 1	25 18 38		Nov	22 9 10	22 0 27
	DEC	25 6 45	25 13 57		DEC	21 21 54	21 18 47

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 272. F. March. d. h. m. 25 6 8	JAN  O FEB MAR APRIL MAY . JULY . O AUG SEPT Oot Nov	d. h. m. 20 10 39 { 4 5 1 {18 23 23 20 12 7 19 0 51 18 13 35 17 2 19 {16 15 3 {31 9 25 15 3 47 13 16 31 13 5 15 11 17 59 11 6 43	d. h. m. 20 4 36 4 16 35 18 20 33 20 13 3 19 5 18 18 20 27 17 10 2 16 21 56 30 20 1 15 8 32 13 18 33 13 4 36 11 15 7 11 2 11	B.C. 269. C.B. March. d. h. m. 24 23 34	Jan FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov DEC	d. h. m.  18 1 49  16 14 33  17 3 17  15 16 1  {15 4 45  {29 23 7  13 17 29  13 6 13  11 18 57  10 7 41  9 20 25  { 8 9 9  {28 3 31  7 21 58	d. h. m.  18 7 1  16 16 39  17 1 31  15 10 21  14 20 2  30 8 34  13 7 24  12 21 0  11 12 45  10 6 2  9 23 45  8 16 49  22 17 36  8 \$ 18
271. E. 25 11 57	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov	9 19 28 8 8 12 9 20 56 8 9 40 7 22 24 6 11 8 5 28 52 4 12 36 3 1 20 2 14 4 { 1 2 48 30 15 32 30 4 16	9 13 56 8 2 24 9 15 46 8 6 8 7 21 16 6 12 40 6 3 43 4 17 53 3 6 58 2 19 10 1 6 42 30 17 50 30 4 36	268. A. 25 5 28	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT ONOV	6 10 38 4 23 22 6 12 6 5 0 50 { 4 13 31 { 19 7 56	6 21 41 5 8 50 6 18 4 5 2 0 4 9 26 19 16 59 2 17 26 { 2 3 1 81 15 7 80 6 5 28 23 83 28 18 27 12 6 49 27 18 19
270. D. 25 17 46	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov O DEC	28 17 0 27 5 44 28 18 28 27 7 12 26 19 56 (10 14 18 (25 8 40 24 21 24 28 10 8 21 22 52 21 11 36 20 0 20 (4 18 42 (19 13 4	23 15 3 27 1 29 28 12 22 27 0 16 26 13 39 10 17 40 25 4 29 24 20 18 23 12 24 22 4 3 21 18 43 20 8 9 4 10 58 19 20 14	267. g. 25 11 12	DEC  JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	26 19 26  25 8 10  28 20 54  25 9 38  28 22 22  28 11 6  21 28 50  21 12 34  20 1 18  18 14 2  18 2 46  16 15 30  16 4 14	27 6 89  25 21 27  24 9 24  25 18 49  24 2 25  28 9 12  21 16 12  21 0 86  19 11 20  18 1 6  17 17 52  16 12 47  16 8 25

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 266. F. March. d. h. m. 25 17 1	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT NOV DEC	d. h. m.  14 16 59 13 5 48 {14 18 27 29 12 49 13 7 11 12 19 55 11 8 39 10 21 23 9 10 7 { 7 22 51 22 17 13 7 11 35 6 0 19 5 13 3	d. h. m. 15 2 59 13 19 9 15 8 15 29 6 52 13 18 26 13 2 26 11 9 15 10 16 4 8 23 55 7 9 47 22 23 7 6 21 20 5 13 47 5 7 38	B.C. 263. B. March. d. h. m. 25 10 27	JAN O FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	d. h. m.  11 1 10 26 15 1 9 16 20 11 8 21 10 0 37 9 16 19 8 6 48 7 19 41 6 7 6 4 17 37 4 3 49 2 14 14 2 1 2 31 12 21
265. E.D. 21 22 50	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG O SETT OOT NOV DEC	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 2 46 2 21 35 3 14 37 17 17 47 2 4 59 1 16 27 31 1 32 29 9 18 23 16 38 27 0 35 11 3 22 25 10 7 24 21 48 23 11 36 23 3 88	262. a. 25 16 16	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	15 23 14 30 0 12 28 12 49 30 2 28 28 16 56 28 8 12 26 23 38 11 7 47 26 14 24 25 4 18 23 17 18 28 5 19 21 16 46 21 8 48
264. c. 25 4 39	JAN FEB O MAR . APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	21 28 20 20 12 4 { 7 6 26 22 0 48 20 18 82 20 2 16 18 15 0 18 8 44 16 16 28 15 5 12 14 17 56 18 6 40 12 19 24	21 21 7 20 15 2 7 9 85 22 8 10 20 28 81 20 12 34 18 28 22 18 8 97 16 17 18 15 2 8 14 11 47 12 22 49 12 11 16	261. g.r. 24 22 5	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	\[ \begin{array}{cccccccccccccccccccccccccccccccccccc	5 0 25 19 14 12 18 0 22 18 10 40 16 21 48 16 10 9 15 0 10 80 0 52 14 15 87 18 7 51 12 0 5 11 15 85 10 5 58 9 18 47

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 260.	A Annie Maria de Maria de La Caracteria de La Caracteria de La Caracteria de La Caracteria de La Caracteria de	d. h. m.	d. h. m.	B.C. 257.	www.p.y.governienderichen St.	d. h. m.	d. h. m.
March.	JAN	7 23 19	8 6 11	March.	JAN	5 14 29	5 21 54
d. h. m.	FEB	6 12 3	6 16 13	d. h. m.	FEB	4 8 18	4 15 20
25 3 54	MAR	8 0 47	8 1 11	24 21 20	MAR	4 15 57	5 5 55
	APRIL	6 13 31	6 9 48		APRIL	18 4 41	8 17 26
	MAY.	6 2 15	5 18 38		0	117 28 8	17 16 54
	June .	4 14 59	4 4 55		MAY .	2 17 25	8 2 21
	JULY.	4 3 43	8 17 18			(1 6 9	1 9 84
	Aug	2 16 27	284		June.	180 18 58	80 16 21
		(1 5 11	1 0 50		July.	80 7 87	29 28 41
	SEPT	80 17 55	30 18 48		Aug.	28 20 21	24 8 82
	Ocr	30 6 39	80 12 29		SEPT.	27 9 5	26 19 46
	Nov.	28 19 23	29 5 2			(12 8 27	12 10 8
	<b>3</b> 0	28 8 7	28 19 88		0	26 21 49	26 9 50
	DEC	20 0 1	20 19 99		Oct	1	
					Nov.	25 10 88	25 2 84
259.	Jan	26 20 52	27 7 47		DEC	24 28 17	24 21 7
D.	FEB	25 9 36	25 17 47				
25 9 43	Mar	26 22 20	27 2 6	256.	JAN	28 12 1	28 16 7
	APRIL	25 11 4	25 9 80	G.	FEB	22 0 45	22 10 4
	0	(10 5 26	10 13 25	25 8 9	MAR	28 18 29	24 1 45
	MAY .	24 23 48	24 16 56		APRIL	22 2 18	22 14 86
	June .	23 12 32	28 1 82		MAY.	21 14 57	22 0 49
	JULY.	23 1 16	22 12 17		June .	20 8 41	20 9 9
	Aug.	21 14 0	21 1 52		July.	19 16 28	19 16 40
*	SEPT.	20 2 44	19 18 17		Aug	18 5 9	18 0 24
	Oct.	19 15 28	19 12 47		SEPT.	16 17 58	16 9 16
	0	(3 9 50	3 5 48	1			
	Nov.	18 4 12	18 8 0	]	Ocr	16 6 87	15 19 58
	DEC.	17 16 56	18 2 22		Nov.	14 19 21	14 8 89
	DEC.	11 10 90	10 2 22		DEC	14 8 5	18 28 88
050	~	40 2 10					
258. c.	JAN.,	16 5 40	16 18 81	255.	JAN	12 20 50	12 16 14
	FEB.	14 18 24	15 7 50	F.	FEB	ſ11 9 84	11 9 51
25 15 32	MAR	16 7 8	16 18 20		0	£26 8 56	26 9 24
	APRIL	$\int 14 \ 19 \ 52$	15 2 88	25 8 58	MAR	12 22 18	18 8 18
	0	(29 14 14	29 14 18		APRIL	11 11 2	11 19 81
	MAY.	14 8 36	14 9 85		MAY .	10 28 46	11 9 44
	JUNE.	12 21 20	12 16 19		June .	9 12 80	9 21 42
	July .	12 10 4	11 23 58		July.	9 1 14	9 7 48
	Aug	10 22 48	10 9 24			7 18 58	7 16 49
	SEPT	9 11 82	8 21 41		0	22 8 20	21 22 29
1	Oct	59 0 16	8 13 5		SEPT	6 2 42	6 1 29
	0	[23 18 38]	23 21 32		Oct.	5 15 26	5 11 4
	Nov	7 18 0	7 7 7		Nov.	4 4 10	8 21 82
1	DEC	7 1 44	7 2 37		DEC.	8 16 54	8 9 15
						0 40 04	o am
' <del></del>				I .		<u> </u>	

		I .		<del></del>			
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C.		d. h. m.	d. h. m.	B.C. 251.		d. h. m.	d. h. m.
254. E.	JAN	$  \begin{cases} 2 & 5 & 39 \\ 31 & 18 & 23 \end{cases} $	1 22 19 31 12 36	March.	JAN Feb	28 9 33 26 22 17	28 15 40 27 0 56
	FEB	(		d. h. m. 25 8 13	MAR.	28 11 1	28 9 21
March.	0	15 12 45	16 0 51		APRIL	26 23 45	26 17 44
d. h. m.	3.6	(277	2 3 57		MAY.	26 12 29	26 3 5
25 14 47	MAR	(31 19 51	81 19 56		0	(10 6 51	10 15 41
	APRIL	30 8 35	30 11 53		June .	25 1 13	24 14 14
	MAY .	29 21 19	30 3 2		JULY.	24 13 57	24 3 49
	June.	28 10 3	23 16 50		Aug	23 2 41	22 19 46
1	July.	27 22 47	28 5 11		SEPT	21 15 25	21 13 25
	0	∫11 17 9	11 3 23		Ocr	21 4 9	21 7 38
	Aug	(26 11 31	26 16 20		Nov	19 16 53	20 1 7
	SEPT	25 0 15	25 2 53		0	∫ 4 11 15	4 2 16
	Oct	24 12 59	24 13 22		DEC	(19 5 37	19 16 50
	Nov	23 1 43	23 0 4				
	DEC	22 14 27	22 11 4	250.	JAN	17 18 21	18 6 12
253.	JAN	21 3 11	20 22 27	G.	FEB	16 7 5	16 17 10
	FEB	19 15 55	19 10 22	25 14 2	MAR	17 19 <b>4</b> 9	18 2 5
24 20 36	MAR	20 4 39	19 23 8		APRIL	16 8 33	16 9 40
	APRIL	18 17 23	18 12 57		MAY.	\{15 21 17	15 16 50
	MAY .	18 6 7	18 3 45		-0	(30 15 39	30 23 38
	JUNE.	16 18 51	16 19 7		JUNE .	14 10 1	14 0 38
	July .	16 7 85 81 1 57	16 10 25		JULY.	18 22 45 12 11 29	13 10 10 11 22 19
	Aug	14 20 19	80 15 87 15 1 5		Aug Sept	11 0 13	10 13 26
	SEPT.	13 9 8	13 14 48		Oct.	10 12 57	10 13 20
	Oct	12 21 47	18 8 88		Nov.	(9 1 41	9 2 21
	Nov.	11 10 81	11 15 80		0	23 20 3	28 15 43
!	Dec	10 23 15	11 2 47		DEC	8 14 25	8 21 25
075		9 12 0	9 13 26	1			
252. в.	JAN Feb	9 12 0	7 23 32	249.	JAN	7 8 10	7 14 51
25 2 25	MAR.	9 13 28	9 9 25	F.E.	FEB.	5 15 54	6 5 36
20 2 20	APRIL	8 2 12	7 19 45	24 19 51	MAR.	6 4 38	6 17 23
	MAY.	7 14 56	7 7 10		APRIL	4 17 22	5 2 34
	June .	6 8 40	5 20 15		MAY .	4 6 6	4 9 58
	0	20 22 2	21 1 7		JUNE .	2 18 50	2 16 38
	JULY .	5 16 24	5 11 2		T	§ 2 7 34	1 23 39
	Aug	4 5 8	4 8 5		July .	<b>181 20 18</b>	31 8 8
	SEPT	2 17 52	2 19 89		Aug	30 9 2	29 19 1
	Oom	§ 2 6 86	2 11 54	1	SEPT	28 21 46	28 8 55
	Oct	81 19 20	(187		Ocr	28 10 30	28 1 48
	Nov	30 8 4	\{80 16 54		Nov	26 23 14	26 20 47
	0	$\int 15 \ 2 \ 26$	14 19 10		DEC	26 11 58	26 16 21
L	DEC	29 20 48	80 5 4	}	<u> </u>		1

	a representativa de la companion de la compani	NET STEMS FOR SPORTED THAT IS TO SPORT THE SECOND	and the report state and the state of	4			
Mean		Mean New		Mean		Market Norway	Trans Now
Vernal Equinox.	Month.	Morea.	Moren, )(^) Full Rel.)	Rojuitora.	M-mia	# 18,70 m 12	Marin Fort Mai
MARKAMAN AND AND AND AND AND AND AND AND AND A	· · · · · · · · · · · · · · · · · · ·	Linchistophia (MCPH). Albert	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T				
B.C.		d. h. m.	d. h. m.			d A 42	.1 1
248.	_			B.C.			
March.	JAW	25 0 48	1	248.	J. W .	27.15 13	22 4 3%
d. h. m.	FEB	28 18 27	21 3 20	Marile		4 60 \$18 \$7.	1. 23 14
25 1 40	MAR	25 2 11	25 15 47	d A. m	1	121 4 4	2
	0	( 8 m m	- H11 6	24 19 6	Man	41 17 .1	1 1 27
	Aren	23 14 55	24 1 61	4	Aren	grand of the	21 117
	May .	28 8 30	23 9 49	d	M.	\$ 1 3 to \$10	\$ 19 (22) 184
	June.	21 16 28	21 16 44		Jens.	1 /9 2 ,2,3	14 17 26
	Jui.v .	21 5 7	2 + 23 44	i	3:44.	1: A · 1:	19 2 43
	Aug	19 17 M	19 7 49		Ats.	34: 10 \$	\$46 \$4 fax
	SEPT	18 6 85	17 17 M	Ì	Mars .	44 23 45	15 1 44
	0	(8 0 57	8 7 10		the.	3 8 3 10 7 5	14 12 25
	Ocr	17 19 19	17 6 36		Sur.	11 42 11	13 23 6
	Nov	16 8 8	15 21 2		Dan .	32 18 57	1210 0
	DEC	15 20 47	15 15 48				
047	-			244.	Jan	. 11 ** 61	30 23 4
247.	JAN	14 9 81	14 10 82		1 2	4.37 374 (8	
i	Fun	12 22 15	18 6 2		Van .	u 10 gr	U # 26
25 7 29	MAR.	§14 10 50	14 21 70	25 0 55	Man.	11 2 0	144 Jul 25
	0	(29 9 31	30 1 30		Aran	9 14 58	0 0 25
	APRIL	12 28 48	18 12 4		Mar	0 8 57	0 23 88
	MAY .	12 12 27	12 23 Ba		Jess	7 10 21	7 14 87
	Junn.	11 1 11	11 H 47		Jenn	7 5 5	* 6 7
	July .	10 18 55	10 16 42		· •••• · · ·	/1 20 J	•
	Aug	9 2 39	9 0 28		Aca		21 15 22
	SEPT	5 7 15 28	7 8 47		Ners		6 41 22
	0	22 9 45	22 10 51		I .	4 的 說清	# # feg
	Oor	7 4 7	6 18 85		Ox y	B 19 1;	4 1 24
	Nov	5 16 51	5 6 18		Nov	2 4 1	2 13 to
	DEC	5 5 83	4 20 6		Der.	3 30 45	3 1 43
246.	JAN	8 18 20	8 11 49			181 9 39	a: 13 %i
в,	FED.	2 7 4	2 4 49				
25 18 18	MAR.	(8 19 48	8 22 14	243.		13 5 53	15 9 12
	0	18 14 10	18 17 86	#44. #.	Jam.	1 20 22 11	物粉粉
	APRIL	2 8 82		1	Face.	24 10 ta	神神神
	*********		9 15 4	25 6 44	M.s.	20 M 41	20 10 10
	MAY.	{ 1 21 16 81 10 0	2 0 17		A 1780 3 8.	As 13 No	J# 4 40
	JUNN.	4	81 19 24	9	May .	<b>1994 1 1</b> 40	It in al
		29 22 44	80 6 81		June .	m in hi	m e m
	Aug.	20 11 28	29 16 10		0	,11 # 16	11 * 20
		28 0 12	28 1 14		Juny ,	1 20m 21 20m	23 22 17
		(11 18 84	11 10 84		Atte, .	94 15 <i>41</i>	24 11 54
	Oct.	26 12 56	26 10 29		Harr.,	23 4 6	an to
		26 1 40	25 20 88	and the same of th	Oct. ,	22 16 to	11 m m
	Nov.	21 14 24	24 7 40	Dimension	Nov	21 5 34	21 14 81
	DEC.	24 8 8	28 19 57		Dec		21 9 54
***************************************	-	Andrewson the Control of the Control	11	4	9		

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 242.		d. h. m.	d. h. m.	B.C. 239.		d. h. m.	d. h. m.
March.	Jan	19 7 2	19 14 53	G.	JAN	15 22 12	16 5 43
d. h. m.	FEB	17 19 46	18 0 37	March. $d. h. m.$	FEB	14 10 56	14 22 59
25 12 33	MAR	19 8 30	19 9 9	25 5 59	MAR	15 23 40	16 13 25
	APRIL	17 21 14	17 17 15		APRIL	(14 12 24	15 0 50
	MAY.	17 9 58	17 1 49		0	29 6 46	28 23 47
	June.	15 22 42	15 11 50		MAY.	14 1 8	14 9 42
	July .	15 11 26	15 0 8		June .	12 13 52	12 17 2
		14 0 10	13 15 0		_	12 13 32	11 23 56
	Aug	12 12 54	- 1		JULY.		
	Sept				Aug	10 15 20	
	Oct	12 1 38	12 2 22		SEPT	9 4 4	8 16 36
	Nov.	10 14 22	10 20 36		Ocr	8 16 48	8 4 2
1	Dec	10 3 6	10 13 27		0	23 11 10	23 18 23
					Nov	7 5 32	6 18 8
241.	JAN	8 15 51	9 4 4		DEC	6 18 16	6 10 43
С.В.	FEB	7 4 35	7 16 9				
24 18 22	MAR.	7 17 19	8 1 53	238.	JAN	5 7 1	5 5 1
	APRIL	6 6 3	6 9 52	F.	FEB	3 19 45	3 23 41
	MAY.	( 5 18 47	5 16 59	25 11 48	MAR.	5 8 29	5 17 19
	0	20 13 9	20 20 0	20 12 10	APRIL	3 21 13	4 8 50
	June .	4 7 31	4 0 14		MAY.	3 9 57	3 21 40
	l	3 20 15	3 8 45			1 22 41	2 7 58
	JULY.		1 19 30		June.	(11125	1 16 32
	Aug	12			JULY.	12	
		(81 21 48	31 9 13			(31 0 9	1
	SEPT	30 10 27	30 1 50		Aug	29 12 58	29 8 30
	Ocr	29 23 11	29 20 35		SEPT	28 1 37	27 17 41
	0	§13 17 33	13 14 43		Ocr	27 14 21	27 4 81
	Nov	(28 11 55	28 16 1		Nov.	26 8 5	25 17 16
	DEC	28 0 39	28 10 28		DEC	25 15 49	25 7 56
				i			
240.	JAN	26 18 24	27 2 39	237.	JAN	24 4 34	24 0 8
Α.	FEB	25 2 8	25 15 50	E.D.	FEB	22 17 18	22 17 13
25 0 11	MAR	26 14 52	27 2 8		0	( 8 11 40	8 17 32
	APRIL	25 3 36	25 10 13	24 17 87	MAR.	23 6 2	28 10 15
	0	( 9 21 58	9 20 48		APRIL	21 18 46	22 2 15
*	MAY.	24 16 20	24 17 8		May .	21 7 80	
	JUNE .	23 5 4	22 23 46		JUNE .	19 20 14	
	Jura.	22 17 48	22 7 26		JULY.	19 8 58	
	Aug.	21 6 82	20 17 4		Aug.	17 21 42	
		19 19 16	19 5 31			(116 4	
	SEPT	1			O Coom	16 10 26	1
	Oct	19 8 0			SEPT		1
	0	8 2 22	3 6 20		Oct	15 28 10	1
	Nov.	17 20 44	17 15 7		Nov.	14 11 54	1
}	DEC	17 9 28	17 10 34		DEC	14 0 38	18 18 4
	1	1			1		

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
		(O Full Eci.)	——————————————————————————————————————	Ingainoz.		(O 1 an 150.	(O Full Edi.)
B.C.		d. h. m.	d. h. m.	B.C. 233.		d. h. m.	d. h. m.
236.	JAN	12 13 22	12 6 45	G.F. March.	JAN	10 4 32	10 13 48
March.	FEB	\sigma11 2 6	10 20 29	d. $h.$ $m.$	FEB	8 17 16	9 0 10
d. $h.$ $m.$	0	25 20 28	26 8 56	24 16 52	MAR	9 6 0	9 9 2
24 23 26	MAR	12 14 50	12 11 14	İ	APRIL	<b>7 1</b> 8 44	7 17 3
	APRIL	11 3 34	11 2 43		MAY .	7 7 28	7 1 5
1	MAY .	10 16 18	10 18 22		June .	5 20 12	5 10 6
	JUNE.	9 5 2	9 9 32		0	20 14 84	20 22 47
	JULY.	8 17 46	8 23 39		JULY.	5 8 56	4 21 8
	Avg	7 6 30	7 12 30		Aug	3 21 40	3 10 45
ļ	0	22 2 52	21 12 53		SEPT	2 10 24	2 2 55
	SEPT	5 19 14	6 0 14			(123 8	1 20 56
	Ост	5 7 58	5 11 20		Oct	31 11 52	81 15 84
	Nov	3-20 42	3 22 12		Nov	30 0 36	30 9 24
	DEC	3 9 26	3 9 2		0	(14 18 58	14 10 57
		(100.11	4 40 55		DEC	29 13 20	30 1 17
235.	JAN	1 22 11	1 19 55			`	
В.	1	(31 10 55	31 6 54	23 <b>2</b>	JAN.	28 2 5	90 14 97
	FEB			E.		26 14 49	28 14 87
25 5 15	MAR	1 23 39	1 18 15	24 22 41	FEB MAR	28 3 38	27 1 81 28 9 59
	A	(31 12 23	31 6 24	77 77 71	APRIL		
	APRIL	30 1 7	29 19 43		MAY .	26 16 17 26 5 1	26 17 17
	MAY .	29 13 51	29 10 13				26 0 13
	JUNE.	28 2 35	28 1 36		O June.		10 6 17
	JULY.	27 15 19	27 17 13		_	<b></b>	24 7 55
	0	(11 9 41	10 23 22		JULY.	24 6 29	23 17 27
	AUG SEPT	(26 4 3	26 8 25		AUG	22 19 18	22 5 41
		24 16 47	24 22 45		SEPT	21 7 57	20 20 59
	Oct	24 5 31	24 12 4		Oct	20 20 41	20 14 55
	Nov	22 18 15	23 0 22		Nov	19 9 25	19 10 17
	DEC	22 6 59	22 11 43		Dra	4 8 47	4 0 40
234.	JAN	20 19 44	20 22 10		DEC	(18 22 9	19 5 80
<b>A.</b>	FEB	19 8 28	19 7 51	004	_		
25 11 4	MAR	20 21 12	20 17 14	231. D.	JAN	17 10 53	17 22 55
	APRIL	19 9 56	19 3 3		FEB	15 28 37	16 18 54
	MAY .	18 22 40	18 14 3	25 4 30	MAR.	17 12 21	18 1 10
	JUNE .	17 11 24	17 2 53		APRIL	16 1 5	16 10 10
	0	5 2 5 46	2 8 36		MAY .	15 18 49	15 17 26
	JULY.	(17 0 8	16 17 40		June .	14 2 88	14 0 5
	Aug	15 12 52	15 10 0		JULY.	13 15 17	18 7 9
	SEPT	14 1 36	14 3 4		Aug	12 4 1	11 15 46
	Oct	13 14 20	13 19 52	İ	SEPT	10 16 45	10 2 50
	Nov	12 3 4	12 11 33		Ocr	10 5 29	9 16 54
	DEC		12 1 38		Nov	8 18 13	8 9 49
	0	26·10·10	26 3 23		DEC	8 6 57	8 4 45
l							

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 230.		d. h. m.	d. h. m.	B.C. 227.		d. h. m.	d. h. m.
March.	JAN	6 19 42	7 0 12	F. Manah	JAN	3 10 52	3 4 36
$\vec{d}$ . $\vec{h}$ . $m$ .	FEB	5 8 26	5 18 30	March. $d. h. m.$	FEB	1 23 36	1 17 33
<b>25</b> 10 19	Mar	6 21 10	7 10 20	25 8 45	MAR	3 12 20	3 7 30
	APRIL	$\int 5 954$	5 23 10		APRIL	2 1 4	1 22 22
ŀ	0	20 4 16	19 21 12		7/5	<b>( 1 13 48</b>	1 13 50
ŀ	MAY.	4 22 38	5 9 11		MAY.	(31 2 32	31 5 17
	June.	3 11 22	3 17 11		JUNE .	29 15 16	29 20 5
	JULY.	3 0 6	3 0 14		JULY.	29 4 0	29 9 47
	Aug	$\int 1 12 50$	1 7 27		Aug	27 16 44	27 22 20
	1100	(31 1 34	80 15 49		SEPT	26 5 28	26 9 59
	SEPT	29 14 18	29 2 9		Ocr	25 18 12	25 21 9
	0	<b>∫14</b> 8 40	14 15 16		Nov	24 6 56	24 8 6
	Ocr	(29 3 2	28 14 58	}	DEC	23 19 40	23 18 55
	Nov	27 15 46	27 6 20				
	DEC	<b>27 4</b> 30	26 23 45	226. E.	JAN	22 8 25	22 5 40
229.	JAN	25 17 15	25 18 13	16.	0	∫ 6 2 47	6 15 1
B.A.	FEB.	24 5 59	24 12 22		FEB	(20 21 9	20 16 33
24 16 8	MAR	24 18 43	25 4 55	25 9 84	MAR	22 9 53	22 3 56
	0	(8135	8 9 8		APRIL	20 22 37	20 16 22
	APRIL	23 7 27	23 19 3		MAY .	20 11 21	20 6 7
	MAY .	22 20 11	23 6 36	•	June.	19 0 5	18 21 4
	June.	21 8 55	21 16 3		July.	18 12 49	18 12 45
	July .	20 21 39	21 0 17		0	§ 2 7 11	1 23 5
	Aug	19 10 28	19 8 20		Aug	(17 1 88	17 4 28
	SEPT	17 28 7	17 17 6		SEPT	15 14 17	15 19 31 .
	0	( 2 17 29	2 18 26		Ocr	15 8 1	15 9 42
	Oct	17 11 51	17 8 13		Nov	13 15 45	13 22 43
	Nov	16 0 85	15 15 1		DEC	13 4 29	18 10 88
	DEC	15 13 19	15 4 89	005	-	(11 15 10	
228.	JAN	14 2 3	13 19 55	225. D.C.	Jan	\$11 17 18	11 21 27
G.	FEB.	12 14 47	12 12 23		FEB.	10 5 57	26 15 52
24 21 57	MAR	(14 8 81	12 12 25 14 5 19	24 15 23	MAR.	10 5 57	10 7 17
51	O	28 21 53	29 1 29	23 TO 29	APRIL	9 7 25	10 16 81 9 1 46
	APRIL	12 16 15	12 21 47		MAY.	8 20 9	
	MAY.	12 4 59	12 12 54		June .	7 8 53	8 11 51
	June .	10 17 43	12 12 54		JULY.	6 21 87	6 23 34 6 13 20
	July.	10 6 27	10 13 89		0	21 15 59	21 16 8
	Aug.	8 19 11	8 28 47		Aug	5 10 21	5 5 6
	SEPT.	7 7 55	7 9 20		SEPT.	8 28 5	8 22 5
	0	$\begin{cases} 22 & 2 & 17 \end{cases}$	21 17 58		Oct	3 11 49	8 15 24
	Oct	6 20 89	6 19 4		Nov.	2 0 83	2 8 0
	Nov.	5 9 28	5 5 24			1 18 17	1 28 7
	DEC.	4 22 7	4 16 88		DEC	$\begin{cases} 1 & 13 & 17 \\ 81 & 2 & 1 \end{cases}$	81 12 17
		'			ĺ		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl	True New Moon.
B.C. 224.	-	d. h. m.	d. h. m.	B.C. 221.		d. h. m	d. h. m.
в.	JAN	29 14 45	29 23 26	F.E.	JAN	27 5 56	27 18 25
March. $d. h. m.$	FEB	28 3 30	28 8 52	March.	771	25 18 40	26 6 81
24 21 12	MAR	29 16 14	29 17 2	d. h. m. 24 14 38	MAR.	26 7 24	i .
	APRIL	28 4 58	28 1 12		APRIL	24 20 8	25 8 7
	MAY .	27 17 42	27 8 59		0	C 9 14 30	9 6 89
	JUNE .	26 6 26	25 18 50		MAY .	24 8 52	1
	JULY.	25 19 10	25 7 6		JUNE .	22 21 36	28 0 29
	Aug	24 7 54	23 22 7		July.	22 10 20	22 7 85
	SEPT	22 20 38	22 15 29		Aug.	20 23 4	20 15 26
	Oct	22 9 22	22 10 10		SEPT.	19 11 48	19 0 51
	Nov.	20 22 6	21 4 44		Ocr.	19 0 32	18 12 27
	DEC	20 10 50	20 21 48		0	(2 18 54	8 2 49
					Nov.	17 18 16	17 2 33
223.	JAN	18 23 34	10 10 00		DEC.	17 2 0	16 18 56
423.	FEB.	17 12 19	19 12 28		DEC.	1. 2 0	10 10 50
25 3 1	MAR.		18 0 23		_		
40 0 1		19 1 3 17 13 47	19 9 52	220.	JAN	15 14 45	15 12 51
	APRIL		17 17 35	D.	FEB	<b>14</b> 8 29	14 7 7
	MAY.	(17 2 31	17 0 28	24 20 47	MAR.	15 16 18	16 0 27
	O T	(31 20 53	$\int_{1}^{1} 232$		APRIL	14 4 57	14 15 47
	JUNE.	15 15 15	15 7 35		MAY .	13 17 41	14 4 85
	Aug.	15 3 59	14 16 4		JUNE .	12 6 25	12 15 6
	SEPT.	13 16 43 12 5 27	13 2 54		July.	<b>11</b> 19 9	11 28 58
	1 _ 1		11 16 45		Aug	10 7 58	10 8 12
	Nov	11 18 11	11 9 33		SEPT	8 20 87	8 16 48
	Nov	$\begin{cases} 10 & 6 & 55 \\ 25 & 1 & 17 \end{cases}$	10 4 28		Ocr	8 9 21	8 2 16
	1		24 23 41		Nov	6 22 5	6 18 16
	DEC	9 19 39	10 0 1		DEC	6 10 49	6 1 56
222.	JAN	8 8 23	8 18 31	219.	JAN.	4 23 88	4 16 15
G.	FEB	6 21 7	7 10 36	C.	FEB	8 12 17	8 7 55
25 8 50	MAR.	8 9 51	8 23 38	25 2 16	MAR	(511	5 0 28
	APRIL	6 22 35	7 9 45			19 19 28	20 1 82
	1.	6 11 19	6 17 42	1	APRIL	8 18 45	8 17 4
	i	(21 5 41	21 3 17		MAY .	8 2 29	8 8 51
1	JUNE .	5 0 3	5 0 30	1	JUNE .	1 15 18	1 28 8
1	JULY.	4 12 47	4 7 15		_	1 8 57	1 11 87
ļ	AUG.	3 1 31	2 15 3	ļ	JULY .	30 16 41	80 22 84
į.	SEPT.	1 14 15	1 0 53		AUG.	29 5 25	29 8 84
İ	Oct.		30 13 30		1	12 23 47	12 18 7
]	10	(30 15 48	30 5 5		~ - 13	27 18 9	27 18 28
1	- K	14 10 5	14 15 9		Ocr.	27 6 58	27 4 88
	4	29 4 27	28 23 8		Nov.	25 19 87	25 15 20
Ì	Dec.	28 17 11	28 18 27		DEC.	25 8 21	25 2 51
				1			-0 2 01

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 218. 8. March. d. h. m. 25 8 5	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	d. h. m.  23 21 6  22 9 50  { 9 4 12  23 22 81  22 11 18  22 0 2  20 12 46  20 1 30  18 14 14  { 2 8 36  17 2 58  16 15 42  15 4 26  14 17 10	d. h. m.  23 15 8  22 4 17  9 16 53  23 18 24  22 9 24  22 0 49  20 16 3  20 6 32  18 19 55  1 18 31  17 8 17  16 19 54  15 7 7  14 18 2	B.C. 215. E. March. d. h. m. 25 1 31	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV	d. h. m. \begin{cases} 5 17 54 \\ 20 12 16 \\ 19 1 0 \\ 20 13 44 \\ 19 2 28 \\ 18 15 12 \\ 17 3 56 \\ \begin{cases} 1 22 18 \\ 16 16 40 \\ 15 5 24 \\ 13 18 8 \\ 13 6 52 \\ 11 19 36 \\ \end{cases} \end{cases} \begin{cases} 11 8 20 \\ \end{cases} \end{cases} \end{cases} \begin{cases} 42 2 42 2 42 2 42 2 42 2 42 2 42 2 42	d. h. m. 5 11 38 20 22 25 19 8 32 20 17 8 19 0 41 18 8 24 16 17 12 2 5 56 16 4 10 14 17 50 13 10 15 13 4 35 11 28 34 11 17 39 25 19 36
217. A.G. 24 13 54	Jan Feb Mar April May . June . July . Aug O Sept Oct Nov Dec	13 5 54 11 18 38 12 7 22 10 20 6 10 8 50 8 21 34 8 10 18 \$ 6 23 2 21 17 24 5 11 46 5 0 30 3 13 14 3 1 58	13 4 40 11 15 12 12 2 0 10 13 33 10 2 24 8 16 41 8 8 9 7 0 6 21 7 16 5 15 50 5 6 47 3 20 38 3 9 14	214. D. 25 7 20	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
216. F.	JAN FEB	$ \begin{cases} 1 & 14 & 43 \\ 31 & 3 & 27 \\ \dots \end{cases} $	1 20 35 31 6 45 		DEC	\{ 15 11 30 \\ 30 5 52	30 13 30
24 19 43	MAR  APRIL MAY . JUNE .  O JULY .  AUG  SEPT  OOT  Nov  DEC	\$\begin{cases} 1 & 16 & 11 \\ 81 & 4 & 55 \\ 29 & 17 & 89 \\ 29 & 6 & 28 \\ 27 & 19 & 7 \\ 12 & 18 & 29 \\ 27 & 7 & 51 \\ 25 & 20 & 85 \\ 24 & 9 & 19 \\ 28 & 22 & 8 \\ 22 & 10 & 47 \\ 21 & 28 & 81 \end{cases}\$	1 16 2 31 0 56 29 10 16 28 20 54 27 9 38 12 16 5 27 0 24 25 17 2 24 10 38 24 3 58 22 20 1 22 10 17	213. c.b. 24 18 9	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	28 18 37 27 7 21 27 20 5 26 8 49 25 21 88 24 10 17 23 23 1 22 11 45 21 0 29 20 13 18 19 1 57 18 14 41	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl	True New Moon.
B.C. 212.		d. h. m.	d. h. m.	B.C. 209.		d. h. m	d. h. m.
A.	JAN	17 3 26	17 7 59	E.D.	JAN	14 18 35	14 13 9
d. $h$ . $m$ .	FEB	15 16 10	16 2 1	$\parallel d.  h.  m.$	FEB	13 7 20	13 1 35
24 18 57	MAR	17 4 54	17 17 41	21 12 24	MAR	13 20 4	1
ļ	APRIL	(15 17 38	16 6 25		APRIL	12 8 48	12 5 13
Ì	0	30 12 0	30 4 16		MAY .	11 21 32	11 20 20
	MAY .	15 6 22	15 16 26		JUNE.	10 10 16	10 11 45
	JUNE.	13 19 6	14 0 32		JULY.	9 23 0	10 2 48
1	JULY.	13 7 50	13 7 48		Aug.	8 11 44	8 16 58
1	Aug	11 20 34	11 15 20		SEPT.	7. 0 28	7 6 7
	SEPT	10 9 18	10 0 0		Oct.	6 13 12	6 18 22
	Ост	(9222	9 10 34		Nov.	5 1 56	5 5 58
	0	24 16 24	24 23 29		DEC.	4 14 40	
	Nov.	8 10 46	7 23 28		DEC	# 14 40	4 17 4
	DEC	7 23 30	7 14 41		_		
				203.	JAN	3 3 24	3 3 47
211. G.	JAN	6 12 14	6 7 46	c.	Feb	$\int 1 16 8$	1 14 11
1	FEB	5 0 58	5 1 47	04 40 40	0	(16 10 30	16 22 39
25 0 46	MAR	6 13 42	6 19 31	24 18 13	MAR	3 4 52	8 0 32
	APRIL	5 2 26	5 11 50		APRIL	1 17 86	$\int_{0.0}^{1} 111 20$
	0	(19 20 48	19 16 39	,	MAY.	[1 6 20	(30 28 16
	MAY.	4 15 10	5 1 55		MAL.	(80 19 4	80 12 41
1	June .	3 3 54	3.13 35		June .	29 7 48	29 8 81
	JULY.	2 16 38	2 23 19		JULY.	28 20 32	28 19 29
	Aug	∫ 1 5 22	1 7 56	'	0	12 14 54	12 6 55
	2200.	(30 18 6	30 16 25		Aug	27 9 16	27 11 39
	SEPT	29 6 50	29 1 34		SEPT	25 22 0	26 8 21
	0	∫14 1 12	14 2 8		Oct	25 10 44	25 18 8
	Oct	28 19 34	28 11 57		Nov	23 23 28	24 7 28
	Nov	27 8 18	26 23 47		DEC	23 12 12	28 19 29
	DEC	26 21 2	26 13 9				
210.	JAN	25 9 47	25 3 57	207.	JAN	22 0 57	22 6 9
F.	FEB	23 22 31	23 19 51	в.	0	j 5 19 19	5 28 24
25 6 35	MAR.	25 11 15	25 12 16		FEB	20 13 41	20 15 39
	0	9 5 37	9 9 17	25 0 2	MAR	22 2 25	22 0 26
	APRIL	23 23 59	24 4 25		APRIL	20 15 9	20 9 12
	MAY .	23 12 43	23 19 29		MAY .	20 3 53	19 18 58
	JUNE .	22 1 27	22 9 0		JUNE .	18 16 87	18 6 21
	JULY.	21 14 11	21 20 52		JULY .	18 5 21	17 20 5
	Aug	20 2 55	20 7 31		0	( 1 23 43	1 28 47
	SEPT	18.15 39	18 17 33		Aug.	16 18 5	16 12 0
	0	(3 10 1	3 1 34		SEPT	15 6 49	15 5 25
1	Oct	18 4 23	18 3 46		Oct.	14 19 33	14 23 13
	Nov		16 14 20		Nov.	13 8 17	13 16 18
Į	DEC		16 1 27		DEC.	12 21 1	13 7 42
					-		

	1	<del></del>					
Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.
B.C. 206.		d. h. m.	d. h. m.	B.C. 203.		d. h. m.	d. h. m.
March.	JAN	11 9 46	11 20 56	D.	JAN	8 0 55	Į.
d. $h.$ $m.$	FEB.	9 22 30	10 7 55	March.	FEB.	6 13 39	10
25 5 50	MAR.	11 11 14	11 16 59	d. h. m. 24 23 17	MAR.	8 2 23	6 20 59
	APRIL	9 23 58	10 0 47		APRIL	6 15 7	8 13 51 7 3 59
	MAY.	9 12 42	9 8 11		MAY.	(6 3 51	. 000
	JUNE .	8 1 26	7 16 11		0	20 22 13	6 15 17
	JULY.	7 14 10	7 1 54		June.	4 16 35	20 13 30 5 0 16
	Aug	6 2 54	5 14 12		July.	4 5 19	
	SEPT	4 15 38	4 5 22	T.	Aug.	2 18 3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Oct	4 4 22	3 23 1		1200.	(1 6 47	31 23 31
	Nov	2 17 6	2 18 2		SEPT	30 19 31	30 9 13
	DEC.	§ 2 5 50	2 12 53		Oct.	30 8 15	29 20 59
	DEC.	31 18 34			0	(14 2 37	14 11 16
					Nov.	28 20 59	28.11 1
205.	JAN	<b>\}</b>	1 6 6		DEC.	28 9 43	28 3 6
G.F.		(30 7 18	30 20 43				<b>2</b> 5 <b>0</b> 0
	FEB	28 20 2	29 8 27	202.	JAN.	26 22 28	00 00 00
24 11 39	MAR	29 8 46	29 17 40	c.	FEB.	25 11 12	26 20 36
	APRIL	27 21 30	28 1 10	25 5 6	MAR.	26 23 56	25 14 24
	MAY .	27 10 14	27 7 53	20 0 0	APRIL	25 12 40	27 7 28
	_ 0	§11 4 36	11 9 4		MAY .	25 12 40	25 22 34 25 11 28
	June.	25 22 58	25 14 57		June .	23 14 8	23 11 28 28 23 13
	July.	25 11 42	24 23 29		JULY.	28 2 52	23 7 28
	Aug	24 0 26	23 10 26		Aug.	21 15 36	21 16 8
	SEPT	22 13 10	22 0 25		SEPT.	20 4 20	20 1 4
	Oct	22 1 54	21 17 22		Oct.	19 17 4	19 10 57
	Nov	20 14 88	20 12 26		Nov.	18 5 48	17 22 4
	20	5 9 0	5 8 39		DEC.	17 18 32	17 10 36
	DEC	(20 8 22	20 8 0				21 20 00
204.	JAN.	18 16 7	19 2 28	201.	Jan	16 7 17	16 0 31
E.	FEB.	17 4 51	17 18 25	В.А.	FEB.	14 20 1	14 15 89
24 17 28	MAR.	18 17 85	19 7 17	24 10 55	MAR.	(15 8 45	15 7 35
	APRIL	17 6 19	17 17 17		0	80 3 7	30 9 24
	MAY.	(16 19 8	17 1 9		APRIL	18 21 29	13 23 46
	0	81 18 25	81 9 46		MAY.	13 10 13	13 15 23
	June .	15 7 47	15 7 57		June .	11 22 57	12 5 48
	JULY,	14 20 81	14 14 50		JULY.	11 11 41	11 18 38
	Aug	13 9 15	12 22 49		Aug.	10 0 25	10 6 5
	SEPT.	11 21 59	11 8 58		SEPT	(818 9	8 16 39
•	Ocr	11 10 48	10 21 38		0	28 7 81	22 20 40
	Nov	9 23 27	9 13 15		Oct	8 1 53	8 2 58
	0	24 17 49	25 0 1		Nov	6.14 87	6 13 25
	DEC	9 12 11	9 7 13		DEC	6 8 21	6 0 18
					1		

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Fel	True New Moon.
B.C. 200. G. March.	JAN	d. h. m. 4 16 5	d. h. m. 4 11 35	B.C. 197.		d. h. m	
d. h. m 24 16 43		3 4 49	2 23 23 4 11 56	D.C.	JAN. O	31 19 59	
	O April	\\ 19 11 55 3 6 17	20 0 39 3 1 27	March. d. h. m.	FEB.	(1 84	1 6 54
	MAY.	2 19 1	2 16 0 1 7 15	24 10 10	MAR	\( \) \( \)	81 0 54 29 8 18
	JUNE.	30 20 29	30 22 37		MAY.	28 22 55	28 15 40
	JULY .	30 9 13 28 21 57	30 13 28 29 3 26		June.	27 11 89 ∫12 6 1	1
•	SEPT	$\begin{cases} 12 & 16 & 19 \\ 27 & 10 & 41 \end{cases}$	12 2 25 27 16 24		July .	25 18 7	26 11 16 25 1 4
	Oct Nov	26 23 25 25 12 9	27 4 88 25 16 1		SEPT	24 1 51	28 17 42
	DEC.	25 0 53	$\begin{bmatrix} 25 & 16 & 1 \\ 25 & 2 & 56 \end{bmatrix}$		Nov.	28 14 85 22 8 19	23 12 20 22 7 86
199.	JAN	23 13 38	23 13 21		Dr.c.	21 16 8	5 2 9
F.	FEB	22 2 22	21 23 25	196.	JAN	20 4 48	20 17 52
24 22 32	Mar	23 15 6	23 9 39	в.	FEB	18 17 82	19 6 58
	APRIL	22 3 50	21 20 41	24 15 59	MAR	20 6 16	20 17 15
	MAY.	21 16 34	21 9 7		APRIL	18 19 0	19 1 23
	JUNE .	20 5 18	19 23 13		MAY .	18 7 44	18 8 17
	JULY .	19 18 2 18 6 46	19 14 47		JUNE.	16 20 28	16 15 1
	0	2 1 8	18 7 7 1 15 19		~ O	$\begin{cases} 1 & 14 & 50 \\ 10 & 0 & 10 \end{cases}$	1 19 86
	SEPT.	16 19 30	16 23 25		JULY.	14 21 56	15 22 41
	Oct	16 8 14	16 14 57		Aug Sept	18 10 40	14 8 28 12 20 54
	Nov	14 20 58	15 5 15		Ocr.	12 28 24	12 12 81
	DEC	14 9 42	14 18 4		Nov.	11 12 8	11 6 48
	1				DEC	f11 0 52	11 2 14
198.	JAN	12 22 27	13 5 23		0	125 19 14	25 18 <b>82</b>
E.	FEB	11 11 11	11 15 15	195.	JAN.	9 18 87	9 21 25
25 4 21	MAR.	12 23 55	13 0 5	Α.	FEB	8 2 21	8 14 42
	APRIL MAY.	11 12 <b>3</b> 9 11 1 23	11 8 82 10 17 27	24 21 48	MAR	9 15 5	10 5 8
	June .	9 14 7	9 3 48		APRIL	8 8 49	8 16 20
	JULY.	(9 2 51	8 16 19		MAY .	7 16 88	8 1 6
	0	\23 21 13	23 23 41		JUNE .	6 5 17	6 8 19
	Aug.	7 15 35	7 7 16	1	July .	5 18 1	5 15 4
	SEPT	6 4 19	6 0 12		SEPT.	4 6 45 2 19 29	8 22 80 2 <b>7 8</b> 8
	Oct Nov	5 17 3	5 18 11		ŀ	2 8 18	1 18 59
	DEC.	4 5 47 3 18 31	4 12 0			81 20 57	81 9 15
	220.	o 10 91	4 4 29		Nov.	80 9 41	80 2 6
	<u> </u>				DEC.	29 22 25	29 20 42

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 194.		d. h. m.	d. h. m.	B.C. 191,		d. h. m.	d. h. m.
March.	JAN	28 11 9	28 15 37	С.	JAN	25 2 19	24 21 38
d. h. m.	FEB	26 23 53	27 9 24	March. $d. h. m.$	FEB	23 15 3	23 9 30
25 3 36	MAR	28 12 37	29 0 52	24 21 3	MAR	25 3 47	21 22 13
	APRIL	27 1 21	27 13 32		APRIL	23 16 31	23 12 1
	0	(11 19 43	11 11 17		MAY.	23 5 15	23 2 48
	MAY .	26 14 5	26 23 36		June.	21 17 59	21 18 11
	JUNE.	25 2 49	25 7 54		JULY.	21 6 43	21 9 32
	July.	24 15 33	24 15 26		Aug.	19 19 27	20 0 14
	Aug	28 4 17	22 23 18		SEPT.	18 8 11	18 14 0
	SEPT	21 17 1	21 8 19		Oct.	17 20 55	
	Oct	21 5 45	20 19 7		Nov.	16 9 39	18 2 48 16 14 47
	0	(5 0 7	5 7 45	-	DEC.	15 22 23	16 14 47
	Nov	19 18 29	19 8 1		DEC	10 22 20	10 4 2
	DEC	19 7 18	18 23 1	100	_	4444	
193.	JAN	17 19 58	17 15 43	190. в.	JAN.	14 11 7	14 12 33
F.E.	FEB	16 8 42			FEB	§12 23 52	12 22 35
24 9 25	MAR.	16 21 26	16 9 15 17 2 31	0= 0=0	0	(27 18 14	28 6 9
24 0 20	APRIL	(15 10 10	15 18 39	25 2 52	MAR	14 12 36	14 8 24
	0	80 4 32	80 0 7		APRIL	13 1 20	12 18 40
1	MAY.	14 22 54	15 8 43		MAY.	12 14 4	12 6 7
1	June.	13 11 38	13 20 34		JUNE.	11 2 48	10 19 15
	July.	13 0 22	13 6 38		July.	10 15 32	10 10 9
	Aug	11 13 6	11 15 42		Aug	9 4 16	9 2 20
]	SEPT.	10 1 50	10 0 89		0.	(23 22 38	23 14 54
	Oct.	( 9 14 84	9 10 11		SEPT	7 17 0	7 18 59
	0	24 8 56	24 9 57		OUT.	7 5 44	7 11 16
	Nov	8 8 18	7 20 47		Nov.	5 18 28 5 7 12	6 2 30
	DEC	7 16 2	7 8 34		DEC	5 7 12	5 16 14
192.	JAN	6 4 46	5 21 36	189,	JAN	<b>3</b> 19 56	4 4 17
D.	FEB	4 17 80	4 11 54	A.G.	FEB	(2 8 40	2 14 44
24 15 14	MAR	6 6 15	6 8 12		0	17 8 2	17 6 48
	APRIL	( 4 18 59	4 19 6	24 8 41	MAR	2 21 24	2 23 52
	0	(19 18 21	19 16 57		APRIL	∫ 1 10 8	1 8 11
	MAY .	4 7 48	4 10 58		WARIT	80 22 52	30 16 81
	June.	2 20 27	3 2 3		MAY .	80 11 86	30 1 53
	T	(2 9 11	2 15 49		June .	29 0 20	28 13 10
	JULY.	(81 21 55	(1 4 10		JULY.	28 18 4	28 2 55
	Aug	80 10 89	180 15 22		0	∫12 7 26	12 7 38
	Sept	28 28 23	29 2 1		Aug	<b>\27 1 48</b>	26 19 4
	0	518 17 45	13 9 18		Sept	25 14 82	25 12 52
	Ocr	[28 12 7]	28 12 34		Ocr	25 8 16	25 7 8
	Nov	27 0 51	26 23 19		Nov	23 16 0	24 0 36
	DEC	26 18 85	26 10 19		DEC	23 4 44	28 16 18

Mean Vernal	Month.	Mean New Moon.	True New	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.		(O Full Ecl.)	(O Lan Rect.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
B.C. 188.		d. h. m.	d. h. m.	B.C. 185.		d. h. m.	d. h. m.
F.	JAN	21 17 29	22 5 26	C.B.	JAN	19 8 39	19 9 54
March.	0	5 11 51	5 7 37	d $h$ $m$ .	FEB	17 21 23	18 4 26
d. $h.$ $m.$	FEB	20 6 13	20 16 12	24 7 56	MAR	18 10 7	18 21 2
<b>24 1</b> 4 29	MAR	21 18 57	22 0 57		APRIL	16 22 51	17 11 4
	APRIL	20 7 41	20 8 25		MAY .	(16 11 35	16 22 23
	MAY.	19 20 25	19 15 32		0	(31 5 57	30 20 21
	JUNE.	18 9 9	17 23 24		JUNE.	15 0 19	15 7 32
	JULY.	17 21 53	17 9 5		JULY.	14 13 3	14 15 27
	0	∫ 1 16 15	1 22 2		Aug	13 1 47	12 23 14
	Aug	16 10 37	15 21 27		SEPT	11 14 31	11 7 46
	Sept	14 23 21	14 12 48		Oct	11 3 15	10 17 45
	Ост	14 12 5	14 6 42		Nov	9 15 59	9 5 38
1	Nov	13 0 49	13 1 58		0	24 10 21	24 19 44
	DEC	12 13 33	12 20 59		DEC	9 4 43	8 19 32
187.	JAN.	11 2 18	11 14 17				
E.	FEB.	9 15 2	10 4 49	184.	JAN	7 17 28	7 11 16
24 20 18	MAR.	11 3 46	11 16 23	Α.	FEB	6 6 12	6 4 14
	APRIL	9 16 30	10 1 23	24 13 45	Mar	7 18 56	7 21 34
	MAY.	9 5 14	9 8 41		APRIL	6 7 40	6 14 13
1	JUNE .	7 17 58	7 15 19		MAY.	5 20 24	6 5 18
	JULY.	7 6 42	6 22 24		JUNE.	4 9 8	4 18 19
	Aug	5 19 26	5 7 2		JULY.	3 21 52	4 5 22
	SEPT	4 8 10	3 18 8		Aug.	§ 2 10 36	2 15 3
	Ocr	3 20 54	3 8 17		1	\31 23 20	(1 0 11
	Nov	2 9 38	2 1 20		SEPT	30 12 4	130 935
		1 22 22	1 20 24		Oct	30 0 48	29 19 45
	DEC. O		16 17 38		Nov.	28 13 32	28 6 56
		31 11 6	31 15 56		DEC	28 2 16	27 19 15
186.	JAN.	29 23 50	30 10 12				
D.	FEB	28 12 34		183.	JAN	26 15 0	26 8 41
0 0 7	20	٠	1 2 2	G,	FEB	25 3 44	24 23 12
25 2 7	MAR.	(30 1 18	30 14 46	24 19 34	Mar	26 16 28	26 14 36
	APRIL	28 14 2	29 0 40		. 0	§10 10 50	10 17 8
	MAY.	28 2 46	28 8 31		APRIL	(25 5 12	25 6 23
	0	\frac{11 21 8}{}	11 16 13	-	MAY.	24 17 56	24 21 52
	JUNE.	26 15 30	26 15 26		JUNE .	23 6 40	23 12 26
	JULY.	26 4 14	25 22 30		JULY.	22 19 24	23 1 41
	Aug.	24 16 58	24 6 45		Aug	21 8 8	21 13 41
	SEPT	23 5 42	22 17 2		SEPT	19 20 52	20 0 50
	Ocr.	22 18 26	22 5 55		Oc <b>r</b>	4 15 14	4 4 22
	Nov	21 7 10	20 21 30		Nov.	17 22 20	19 11 36
	0	$\begin{cases} 6 & 1 & 32 \\ 00 & 10 & 14 \end{cases}$	6 8 52		DEC.		17 22 22
	DEC	20 19 54	20 15 14	į	. اناظرت	17 11 4	17 9 13
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Mean Vernal Equinox.   Month.   Mean New Month.   Mean New Month.   Mean New Month.   Mean New Month.   Mean New Month.   CFull Ecl.	T	1			OIVIL TIME	4.		
B.C. 182.    F. March.   A. h. m.   A. h. m.   B.C.   179.	Vernal	Month.	Moon.	Moon.	Vernal	Month.	Moon	7/1000
March. d. h. m.       15 28 49 15 20 15   Feb. d. h. m.       14 12 38 14 7 38 14 7 38   March. d. h. m.       16 11 7 15 19 30   March. d. h. m.       0 {30 19 39 81 8 7 3 12 18 42   11 8 48 11 15 15 15   11 18 48 01   11 18 15 15   11 18 48 01   11 15 11   11 18 40   11 15 11   11	182.		1	d. h. m.				
Mar.   Co   Co   Co   Co   Co   Co   Co   C		JAN		15 20 15	в.	JAN	(12 14 59	
Teb.	d. h. m.	FEB	14 12 33	14 7 33	3.51	0	13	
C   \$\ \begin{array}{ c c c c c c c c c c c c c c c c c c c	25 1 22	MAR.	516 1 17	15 19 30		FEB.		- 05
APRIL 14 14 1 14 8 27  MAY . 14 2 45 13 22 35  JUNE . 12 15 29 12 13 42  JULY . 12 4 13 12 5 13  AUG 10 16 57 10 20 81  SEPT 9 5 41 911 5  OCT 8 18 25 9 0 39  Nov 7 7 9 7 13 16  DEC 6 19 53 7 0 58  181. JAN 5 8 38 5 11 49  E.D. FEB 3 21 22 8 21 54  JUNE . 2 22 50 2 17 12  MAY . 2 11 34  JUNE . 2 2 2 50  AUG 2 1 16  APRIL 2 12 28 21  JULY . 30 1 46  29 21 30  APRIL 2 12 28 21  JULY . 30 1 46  29 21 30  APRIL 2 2 2 2 31  JUNE . 2 3 44  JUNE . 2 4 4 4  JUNE . 2 5 4 42  JUNE . 2 5 4 42  JUNE . 2 5 4 42  JUNE . 2 5 5 16 6  SEPT . 2 4 18 24  AUG 2 5 16 56  SEPT . 2 4 18 24  AUG 2 5 16 56  SEPT . 2 4 18 24  AUG 2 5 16 56  SEPT . 2 4 18 24  AUG 2 5 16 56  SEPT . 2 4 18 24  AUG 2 5 16 56  SEPT . 2 4 18 24  AUG 2 5 16 56  SEPT . 2 4 18 24  AUG 2 5 16 56  SEPT . 2 1 16 5  AUG 3 10 16  AUG 2 16 56  AUG 2 16 56  SEPT . 2 16 56  SEPT . 2 4 18 24  AUG 2 16 56  SEPT . 2 4 18 24  AUG 2 16 56  SEPT . 2 4 18 24  AUG 2 16 56  SEPT . 2 4 18 24  AUG 2 16 56  SEPT . 2 4 18 24  AUG 2 16 56  SEPT . 2 4 18 24  AUG 2 16 56  SEPT . 2 4 18 24  AUG 2 16 56  SEPT . 2 4		0	<b>\ \ 30 19 39</b>	81 8 7			1	
MAY . 14 2 45 18 22 35		APRIL	14 14 1	14 8 27			1	
June . 12 15 29 12 18 42  July . 12 4 18 12 5 18  Aug 10 16 57 10 20 81  Sept 9 5 41 9 11 5  Oct 8 18 25 9 0 89  Nov 7 7 9 7 13 16  Dec 6 19 53 7 0 58  181. Jan 5 8 88 5 11 49  E.D. Feb 3 21 22 32 15 44  Mar 2 11 84 48 115 50  June . 2 22 50 21 7 12  May . 2 11 84 48 115 50  June . 2 8 14 80 28 14 18  Oct 26 15 58 26 28 10  Nov 25 4 42 25 18 58  Dec 24 17 26 25 2 51  180. Jan 28 6 10 28 14 1  Feb 21 18 54 21 28 85  Mar 28 7 88 28 8 2  Aprill 21 20 22 21 16 24  Mar 28 7 88 28 8 2  Aprill 21 20 22 21 16 24  Mar 28 7 88 28 8 2  Aprill 21 20 22 21 16 24  Mar 29 6 39 8 8 22 58  July . 8 19 28 8 7 28  Sept 5 20 51 5 8 19  Oct 5 9 35 5 1 18  Nov 5 9 35 5 1 18  Nov 8 22 19 32 20 11  Aug 7 8 7 6 18 38  Sept 5 20 51 5 8 19  Oct 5 9 35 5 1 18  Nov 8 22 19 32 20 11  Dec 8 18 25 9 0 89  Nov 2 11 84 81  A		MAY.	14 2 45	13 22 35				
July . 12 4 18 12 5 18 10 16 57 10 20 31 Sept 9 5 41 9 11 5 0 Cot 8 18 25 9 0 39 Nov 7 7 9 9 7 13 16 Dec 6 19 53 7 0 58 18 18 2 19 17 15 April 2 2 22 50 19 19 17 15 April 2 1 20 22 11 18 18 0 Nov 26 15 58 26 28 10 Nov 26 15 58 26 28 10 Nov 26 15 58 26 28 10 Nov 26 15 58 26 28 10 Nov 26 15 58 26 28 10 Nov 26 15 58 26 28 10 Nov 26 15 58 26 28 10 Nov 26 15 58 26 28 10 Nov 27 7 8 7 8 28 8 2 29 15 44 50 Cot 28 14 20 22 21 16 24 6 27 Mar 29 15 28 29 15 18 58 24 18 0 Mar 28 7 88 28 8 2 April 2 12 0 0 22 21 16 24 6 27 Mar 24 6 27 Mar 19 10 4 19 22 18 Mar 24 6 27 Mar 19 10 4 19 22 18 Mar 24 6 27 Mar 19 10 4 19 22 18 Mar 24 6 27 Mar 19 10 4 19 22 18 Mar 24 6 27 Mar 19 10 4 19 22 18 Mar 24 6 27 Mar 19 10 4 19 22 18 Mar 24 6 27 Mar 19 22 48 20 12 30 12 30 12 46 19 10 4 19 22 18 Mar 19 22 48 20 12 30 12 30 12 46 19 10 4 19 22 18 Mar 19 22 48 20 12 30 12 30 12 46 19 10 4 19 22 18 Mar 19 22 48 20 12 30 12 30 12 46 19 10 4 19 22 18 Mar 19 22 48 20 12 30 12 30 12 46 19 10 4 19 22 18 Mar 19 22 48 20 12 30 12 30 12 46 19 10 4 19 22 18 Mar 19 22 48 20 12 30 12	١.	JUNE .	12 15 29	12 13 42				
Aug 10 16 57 10 20 31		JULY.	12 4 13	12 5 13				
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C   24 0 3   28 10 26   9 0 39   Nov.   7 7 9   7 13 16   Dec.   6 19 53   7 0 58   Nov.   3 22 19   3 20 11   Dec.   8 11 3   3 15 39   Sept.   2 2 2 50   2 17 12   Max   2 11 34   4 10 6   4 7 80   Aug.   2 11 34   4 10 18		SEPT	(9 5 41	9 11 5		1	·	
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Dec.   6 19 53   7 0 58     Dec.   8 11 3   3 15 39		Nov	7 7 9	7 13 16				
181. Jan 5 8 38 5 11 49 Feb 3 21 22 8 21 54 24 7 11 Mar { 4 10 6 4 7 80		DEC	6 19 53	1				1
BI.   FEB.   S   S   S   S   S   S   S   S   S	1					DEC	9 11 9	g 19 99
E.D. FEB 3 21 22 8 21 54 24 7 11 MAR 4 10 6 4 7 80 O 19 4 28 19 17 15 APRIL 2 22 50 2 17 12 MAY . 2 11 34 { 1 0 18 2 30 5 48 } JULY . 80 1 46 29 21 80 AUG 28 14 30 28 14 18 O (12 8 52 11 28 80) SEPT 26 15 58 26 28 10 Nov 25 4 42 25 18 58 DEC 24 17 26 25 2 51  180. JAN 28 6 10 23 14 1 FEB 21 18 54 21 28 85 24 18 0 MAR 23 7 88 23 8 2 APRIL 21 20 22 21 16 2  178. A.  178. B. 10 16 12 47   1 1 57  2 1 1 16 2 14 54  81 12 32   1 1 57  4 1 1 0  4 1 1 1 0  4 1 1 0  4 1 1 0  4 1 1 0  4 1 1 0  4 1 1 0  4 1 1 0  4 1 1 0  4 1 1 0  4 1 1 0  4 1 1 0  4 1 1 0  4 1 1 1 0  4 1 1 1 0  4 1 1 1 0  4 1 1 1 0  4 1 1 1 0  4 1 1 1 0  4 1 1 1 0  4 1	181.	TAN	5 8 88	5 11 40		_	(12348	2 10 0
24 7 11 Mar { 4 10 6 4 7 80	_				1	Jan. O		16 12 47
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MAY . 2 11 84 { 2 3 44 81 15 50 } 20 18 2 80 5 48 JULY . 80 1 46 29 21 80 Aug 28 14 80 28 14 18 O SEPT { 27 8 14 27 7 5 Oct 26 15 58 26 28 10 Nov 25 4 42 25 18 58 Dec 24 17 26 25 2 51 Oct 26 18 54 21 28 85 April 21 20 22 21 16 2 April 21 20 22 21 16 2 April 21 20 22 21 16 2					25 0 38	MAR	)	2 14 54
June. \begin{cases} 1 & 0 & 18 \\ 20 & 18 & 2 \\ 30 & 1 & 46 \\ 20 & 18 & 2 \\ 20 & 18 & 2 \\ 20 & 18 & 2 \\ 20 & 18 & 2 \\ 20 & 18 & 2 \\ 20 & 18 & 2 \\ 20 & 18 & 2 \\ 20 & 18 & 2 \\ 20 & 21 & 20 \\ 20 & 21 & 16 & 2 \\ 24 & 18 & 0 \\ Mar. \cdot 23 & 7 & 88 \\ 28 & 18 & 20 & 22 \\ 21 & 16 & 2 \\ April \cdot 22 & 21 & 16 & 2 \\ 24 & 6 & 27 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 30 \\ 24 & 6 & 27 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 22 & 21 & 16 & 2 \\ 24 & 6 & 27 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 22 & 21 & 18 \\ 24 & 6 & 27 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 22 \\ 20 & 20 & 20 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 20 & 20 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 20 & 20 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 20 & 20 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 20 & 20 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 20 & 20 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 20 & 20 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 20 & 20 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 20 & 20 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 & 48 \\ 20 & 12 & 80 \\ Mar. \cdot 19 & 22 \\ 20 & 12 \\ Mar. \cdot 19 & 22 \\ 20 & 12 \\ 20 & 22 \\ 20 & 12 \\ 20 & 22 \\ 20 & 12 \\ 20 \\ 20 & 12 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20 \\ 20			1				(81 14 0	(110
JUNE. \$\begin{array}{c ccccccccccccccccccccccccccccccccccc			j.					(30 8 57
JULY. 80 1 46 29 21 80 AUG. 28 14 30 28 14 18 O (12 8 52 11 28 80) SEPT. (27 8 14 27 7 5) OCT. 26 15 58 26 28 10 Nov. 25 4 42 25 18 58 DEC. 24 17 26 25 2 51  180. Jan. 28 6 10 28 14 1 Feb. 21 18 54 21 28 85 24 18 0 Mar. 23 7 88 28 8 2 April 21 20 22 21 16 2  AUG. 26 5 40 25 16 6 SEPT. 24 18 24 24 47 OCT. 24 7 8 28 20 29 Nov. 22 19 52 22 14 45 DEC. 22 8 86 22 10 11  177. Ge. Jan. (6 2 58 6 8 24 24 6 27 Jan. (7 19 10 4 19 22 18 Mar. (19 22 48 20 12 80)		JUNE.	) [	·				29 15 44
Aug 28 14 80 28 14 18 O		June	-			June.	28 4 12	27 22 28
O		1		11			2 1	13 2 19
SEPT 27 8 14 27 7 5 Oct 26 15 58 26 28 10 Nov 25 4 42 25 18 58 Dec 24 17 26 25 2 51  180. Jan 28 6 10 28 14 1 Feb 21 18 54 21 28 85 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 21 80 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 21 80 APRIL 21 20 22 21 16 2 APRIL 21 20 22 21 21 80 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 21 80 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 16 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL 21 20 APRIL 21 20 22 21 20 APRIL 21 20 22 21 20 APRIL		1						27 6 15
OCT. 26 15 58 26 28 10 Nov. 25 4 42 25 18 58 DEC. 24 17 26 25 2 51  180. C. Feb. 21 18 54 21 28 85 24 18 0 Mar. 28 7 98 28 8 2 April 21 20 22 21 16 2		1	2 1			_	26 5 40	25 <b>1</b> 6 6
Nov 25 4 42 25 18 58 DEC 24 17 26 25 2 51  180. C. Feb 21 18 54 21 28 85 24 18 0 Mar 28 7 88 28 8 2 April 21 20 22 21 16 2  Nov 22 4 7 8 28 20 29 Nov 22 19 52 22 14 45 DEC 22 8 86 22 10 11  177. GF. JAN 6 2 58 6 8 24 JAN 6 20 21 20 21 5 18 Feb 19 10 4 19 22 18 Mar 19 22 48 20 12 80				- 1			24 18 24	24 4 47
DEC 24 17 26 25 2 51   Nov 22 19 52 22 14 45    180. Jan 28 6 10 28 14 1   177.   C   6 2 58 6 8 24    180. L			- 1	- 11			24 7 8	28 20 29
180. Jan 28 6 10 28 14 1 177. O 6 2 58 6 8 24 24 18 0 Mar 28 7 98 28 8 2 24 6 27 Mar 19 10 4 19 22 18 Mar 19 22 48 20 12 80				- 11				22 14 45
C. Feb. 21 18 54 21 28 85 24 18 0 Mar. 28 7 38 28 8 2 APRIL 21 20 22 21 16 2 24 6 27 Mar. 19 22 48 20 12 30			23 11 20	23 2 51		Dec	22 8 86	22 10 11
C. Feb. 21 18 54 21 28 85 24 18 0 Mar. 28 7 38 28 8 2 APRIL 21 20 22 21 16 2 4 6 27 Mar. 19 22 48 20 12 80	100	T	22 2 12		177		(6 2 58	6 8 94
24 18 0 Mar. 28 7 38 28 8 2 APRIL 21 20 22 21 16 2 24 6 27 Mar. 19 10 4 19 22 18 20 12 30		1						
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Oct. 16 0 46 16 1 54				16 1 54		. 1	1	
Nov. 14 18 80 14 20 8				14 20 8				
DEC 14 2 14 14 12 58 Nov 11 4 40 10 17 84 DEC 10 17 24 10 10 17		DEC	14 2 14	14 12 58				
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Kel.)
B.C. 176.		d. h. m.	d. h. m.	B.C. 173.		d. h. m.	d. h. m.
E.	JAN	9. 6 9	9 4 34	B.A.	JAN	6 21 19	6 19 7
March.	FEB	7 18 53	7 23 8	March. $d. h. m.$	FEB	5 10 8	5 6 2
d. h. m. 24 12 15	MAR.	9 7 37	9 16 37	24 5 42	MAR.	5 22 47	5 17 20
21 12 10	APRIL	7 20 21	8 7 54		APRIL	4 11 31	4 5 26
	MAY.	(7 9 5	7 20 33		MAY.	4 0 15	8 18 44
	0	22 3 27	21 18 19		June .	2 12 59	2 9 18
	June.	5 21 49	6 6 45		001111	(2 1 43	2 0 48
	JULY.	5 10 33	5 15 18		July.	81 14 27	81 16 28
1		3 23 17	3 23 12		A ***	30 8 11	80 7 87
1	Aug Sept	2 12 1	2 7 26		AUG Sept	28 15 55	28 22 0
1	SEPT	(2 0 45	1 16 48		_	28 4 89	28 11 22
	Ост	1			Oct.		26 28 89
	_	(31 13 29) (15 7 51	31 3 47		Nov.	26 17 28 26 6 7	26 10 56
	, O	1.2	15 16 2		DEC	26 6 7	20 10 50
ŀ	Nov	(30 2 13	29 16 39				
	DEC	29 14 57	29 7 21	172.	JAN	24 18 51	24 21 16
175.	JAN	28 3 41	27 23 33	Q.	FEB	28 7 85	28 6 50
D.	FEB	26 16 25	26 16 33		0	(10 1 57	10 18 27
24 18 4	MAR	28 5 9	28 9 27	24 11 81	MAR	24 20 19	24 16 9
	APRIL	26 17 53	27 1 19		APRIL	28 9 8	28 1 55
	0,	(11 12 15	11 7 31		MAY .	22 21 47	22 12 58
	MAY .	26 6 37	26 15 25		JUNE .	21 10 81	21 1 52
	June.	24 19 21	25 3 33		JULY.	20 28 15	20 16 47
	JULY.	24 8 5	24 14 1		Aug	19 11 59	19 9 15
	Aug	22 20 49	22 23 34		0	(8 6 21	2 28 0
	SEPT	21 9 33	21 9 0		SEPT	18 0 48	18 2 25
	Ост.	20 22 17	20 18 55		Ocr	17 18 27	17 19 15
	0	( 4 16 39	4 17 48		Nov.	16 2 11	16 10 58
	Nov.	19 11 1	19 5 38		DEC	15 14 55	16 0 57
	DEC	18 23 45	18 17 20				
174.				171.	T	14 8 40	14 18 O
174. c.	JAN	17 12 30	17 6 2	171. F.	JAN		
24 23 53	FEB	16 1 14	15 19 44	*	Fев	12 16 24	12 28 12
44 40 00	MAR	17 13 58	17 10 26	24 17 20	_	27 10 46	27 14 5
	APRIL	16 2 42	16 1 51	2± 11 20	MAR April	14 5 8	14 7 56
	M	(30 21 4	§ 1 0 31			12 17 52	12 15 52
•	MAY.	15 15 26	15 17 27		MAY .	12 6 86	11 28 50
	JUNE.	14 4 10	14 8 35		JUNE.	10 19 20	10 8 56
	JULY.	13 16 54	13 22 41		JULY.	10 8 4	9 20 6
1	Aug	12 5 38	12 11 32		Avg	8 20 48	8 9 54
	SEPT.	10 18 22	10 23 20		0	(28 15 10	28 15 85
	Oct.	$\begin{cases} 10 & 7 & 6 \\ 05 & 1 & 00 \end{cases}$	10 10 31		SEPT.	7 9 82	7 2 15
	Nov	(25 1 28	24 17 9		Oct	6 22 16	6 20 26
	Nov	8 19 50	8 21 24		Nov.	5 11 0	5 15 8
	Dec	8 8 34	8 8 16	'	DEC	4 28 44	5 8 54
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Mean	T	135	l	11	1		
Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. )(O Full Ecl.	Mean Vernal Equinox.	Month.		True New Moon.
B.C. 170.	JAN.	d. h. m.		B.C. 167.		d. h. m	d. h. m.
E.	FEB.	8 12 29	4 0 40	March.	JAN.	29 16 29	29 17 43
March.	1 -			d. h. m.			28 11 48
d. h. m. 24 28 8	1	8 18 57	1	24 16 85	MAR.	29 17 51	80 4 4
	APRIL	2 2 41	4 0 21 2 8 49		APRIL	28 6 85	
		( 1 15 25	1	H	MAY .	27 19 19	
	MAY .	15	1 15 59		_ 0	§11 18 4:	11 8 15
	JUNE .	29 16 58	80 22 56		JUNE.	₹26 8 8	3 26 14 49
	JULY.	29 5 87	29 6 41		JULY.	25 20 47	25 28 6
	0	(12 28 59	28 16 28		Aug	24 9 81	
	Aug.	27 18 21	18 5 84		SEPT	22 22 15	22 16 9
	SEPT.		27 4 51		Oct.	22 10 59	22 2 24
	Oct.	26 7 5	25 20 22		Nov	20 23 48	20 14 20
l	Nov.	24 8 83	25 14 29		0	5 18 5	6 4 12
	DEC.	28 21 17	24 9 55		DEC	(20 12 27	20 4 2
		20 21 17	24 5 4				
169.	JAN	22 10 1	22 22 20	166.	JAN	19 1 11	18 19 19
D.C.	FEB	20 22 45	21 12 44	G.	FEB	17 18 55	17 11 45
24 4 57	MAR.	21 11 29	22 0 7	24 22 24	MAR.	19 2 89	19 4 85
	APRIL	20 0 18	20 8 56		APRIL	17 15 28	17 20 56
	MAY.	19 12 57	19 16 8		MAY .	17 4 7	17 11 56
	June.	18 1 41	17 22 45		JUNE.	15 16 51	16 1 8
	July.	17 14 25	17 5 55		July.	15 5 85	15 12 83
	Aug	16 8 9	15 14 48		Aug	18 18 19	18 22 48
	SEPT	14 15 58	14 2 0		SEPT	12 7 8	12 8 22
	Ocr	14 4 87	18 16 17		Ocr	11 19 47	11 18 11
	Nov	12 17 21	12 9 28		Nov	10 8 81	10 4 86
	DEC	512 6 5	12 4 28		DEC	9 21 15	9 15 49
	0	27 0 27	27 2 82				
168.	JAN	10 18 50	10 28 46	165.	JAN	8 10 0	8 8 52
n.	Fen.	9 7 84	9 17 58	F.E.	FEB	6 22 44	6 16 48
24 10 46	MAR.	10 20 18	11 9 80	24 4 18	MAR.	7 11 28	7 6 41
	APRIL	9 9 2	9 22 8		APRIL	(6 0 12	5 21 81
	MAY .	8 21 46	9 7 58		0	20 18 84	21 0 47
	Јими.	( 7 10 80	7 15 58		MAY .	5 12 56	5 12 56
	0	22 4 52	21 22 45		June .	4 1 40	4 4 22
	JULY .	6 28 14	6 22 57	l	JULY.	8 14 24	8 19 7
	Aug	5 11 58	5 6 16		A	(288	2 8 50
	SEPT	4 0 42	8 14 48	ļ	Aug	81 15 52	81 21 25
	Ocr.	8 18 26	8 1 20		SEPT	80 4 86	80 9 8
	Nov	2 2 10	1 14 19	1	0	(14 22 58	14 12 14
		( 1 14 54	1 5 49		Ocr	29 17 20	29 20 21
	DEC. O		16 17 48	1	Nov	28 6 4	28 7 20
1		10	80 28 17		DEC	27.18 48	27 18 8
						1	

Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.		(O Full Ecl.)	(O Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
B.C. 164.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
D.	JAN	26 7 33	26 4 50	161.	JAN	23 22 42	24 11 44
$\begin{array}{c c} March. \\ d. h. m. \end{array}$	FEB	24 20 17	24 15 37	A.G.	0	(7174	7 11 32
24 10 1	MAR	26 9 1	26 2 57	March. $d. h. m.$	FEB.	22 11 26	22 23 26
	0	(10 8 23	10 15 47	24 3 28	MAR	23 0 10	23 8 43
	APRIL	24 21 45	24 15 23		APRIL	21 12 54	21 16 17
	MAY.	24 10 29	24 5 10	i	MAY .	21 1 38	20 23 8
1	JUNE .	22 23 13	22 20 10		JUNE .	19 14 22	19 6 18
1	JULY.	22 11 57	22 11 54		JULY.	19 3 6	18 14 54
	Aug	21 0 41	21 3 40		0	( 2 21 28	3 3 39
1	SEPT.	19 13 25	19 18 50		Aug.	17 15 50	17 1 57
1	0	(4 7 47	8 18 37		SEPT.	16 4 34	15 16 2
Į	Ост	19 2 9	19 9 0		Oct.	15 17 18	15 10 2 15 9 2
	Nov.	17 14 53	17 22 1		Nov.	14 6 2	14 4 5
	DEC.	17 8 87	17 9 58		т.	13 18 46	13 23 47
	DEC	11 3 37	11 9 90	160.	JAN		1
163.	JAN	15 16 21	<b>15 20 36</b>	F.	) AN	1	
C,	FEB	14 5 5	14 6 20		FEB.		26 21 14
24 15 50	MAR	(15 17 49	15 15 28	04 0 17	MAR.	10 20 15	11 9 52
	0	80 12 11	31 0 25	24 9 17		12 8 59	12 22 40
1.	APRIL	14 6 33	14 0 37		APRIL	10 21 43	11 8 85
	MAY .	13 19 17	13 10 43		MAY .	10 10 27	10 16 25
1	JUNE .	12 8 1	11 22 32		Јиме.	8 23 11	8 23 10
1	JULY .	11 20 45	11 12 26		JULY.	8 11 55	8 5 59
	Aug.	10 9 29	10 4 19		0	23 6 17	28 9 5
	SEPT.	( 8 22 13	8 21 27		Aug	7 0 39	6 13 55
	0	23 16 35	23 7 51		SEPT	5 13 23	4 23 58
İ	OCT.	8 10 57	8 14 50		Oct.	5 2 7	4 12 48
İ	Nov.	6 23 41	7 7 27		Nov.	8 14 51	3 4 85
	DEC.	6 12 25	6 22 29		DEC	8 8 35	2 22 45
	1		0 22 20			1 16 20	1 18 4
162.	T	F 110		159,	JAN. O	316 10 42	16 12 10
B.	JAN	5 1 10	5 11 84	E.		(31 5 4	31 12 54
24 21 89	FEB.	3 13 54	8 22 34		FEB		
29 21 09	MAR	5 2 38	5 7 49	04 15 0	3/	(11748	2 5 47
	APRIL	3 15 22	8 15 50	24 15 6	MAR	(31 6 32	31 19 50
	MAY .	8 4 6	2 23 30		APRIL	29 19 16	30 6 59
	JUNE.	1 16 50	$\begin{cases} 1 & 7 & 47 \\ 30 & 17 & 44 \end{cases}$		MAY .	29 8 0	29 15 45
	JULY .	1 5 84	-		JUNE .	27 20 44	27 23 12
	1	(30 18 18	80 6 10		JULY .	27 9 28	27 6 23
	Aug.	29 7 2	23 21 24		Aug	25 22 12	25 14 21
1	SEPT.	27, 19 46	27 14 57		SEPT.	24 10 56	23 23 57
	OCT.	27 8 80	27 9 44		Oct	23 23 40	23 11 45
	Nov.	25 21 14	26 4 17		Nov	22 12 24	22 2 0
	DEC	25 9 58	25 21 15		DEC	22 1 8	21 18 27
	1	1	1			1	1

	<del></del>						
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 158.		d. h. m.	d. h. m.	B.C. 155.		d. h. m.	d. h. m.
D.	JAN	20 13 52	20 12 19	G.	JAN	17 5 2	17 3 50
March. d. h. m.	FEB	19 2 36	19 6 30	March. $d. h. m.$	FEB.	15 17 46	15 14 18
24 20 54	MAR.	20 15 20	20 23 41	24 14 21	MAR.	17 6 30	17 1 0
	APRIL	19 4 4	19 14 48		APRIL	15 19 14	15 12 83
	MAY .	18 16 48	19 8 30		MAY.	15 7 58	
	0	( 2 11 10	2 1 19		JUNE .	13 20 42	
	JUNE .	17 5 32	17 13 54		JULY.	13 20 42	13 15 45 13 7 16
1	July .	16 18 16	16 22 46		Aug.	11 22 10	
	Aug.	15 7 0	15 7 8		SEPT.		11 23 17
	SEPT.	13 19 44	13 15 42			10 10 54	10 15 7
	Oct.	13 8 28	18 1 28		Ост	9 23 38	10 6 6
	Nov.	(11 21 12	11 12 31		Nov.	8 12 22	8 19 59
1	0	26 15 34	27 0 21		DEC	8 1 6	8 8 31
.•	DEC.	11 9 56	11 1 17				
·	DEC	11 000	11 111	154.	JAN	6 13 51	6 19 47
57	JAN	9 22 41	9 15 38	F.	FEB	5 2 35	5 5 51
С.В.	FEB	8 11 25	8 7 18	24 20 10	Mar	<sub>∫</sub> 6 15 19	6 14 59
24 2 43	MAR	9 0 9	8 23 46		0	21 9 41	21 20 88
1	APRIL	7 12 53	7 16 15		APRIL	5 4 3	4 23 48
	MAY .	7 1 37	7 7 55		MAY.	4 16 47	4 9 6
	0	21 19 59	21 14 56		June .	8 5 81	2 19 49
1	JUNE.	5 14 21	5 22 6		July.	2 18 16	∫ 2 8 85
1	JULY.	5 3 5	5 10 83	}	A 77.0	1170	\81 28 85
	Aug	8 15 49	8 21 30		Aug	(80 19 44	80 16 22
	SEPT	2 4 33	2 7 84		0	(14 14 6	14 7 18
		( 1 17 17	1 17 28		SEPT	129 8 28	29 10 O
	Ocr	(81 6 1	81 8 44		Ост	28 21 12	29 8 82
	0	(15 0 28	15 1 45		Nov	27 9 56	27 19 28
	Nov	29 18 45	29 14 35		DEC	26 22 40	27 9 88
	DEC	29 7 29	29 2 6				
156.	JAN.	27 20 14	27 14 21	153,	JAN	25 11 24	25 21 86
A.	FEB.	26 8 58	26 8 28	E.D.	FEB.	24 0 8	24 7 82
24 8 32	MAR.	27 21 42	26 5 28 27 17 38		0	( 9 18 80	9 21 18
24 0 02	APRIL	26 10 26	26 8 30	24 1 59	MAR	24 12 52	24 15 58
		(11 4 48	11 8 2		APRIL	28 1 86	22 28 26
	MAY.	25 28 10			Max .	22 14 20	22 7 7
	June .	24 11 54	25 28 55 24 15 8		June .	21 8 4	20 16 2
	JULY.	24 11 34 24 0 38			JULY.	20 15 48	20 8 8
		22 13 22			Aug.	19 4 82	18 17 2
	Aug				0	(2 22 54	2 23 41
	SEPT	21 2 6	21 7 26		SEPT.	17 17 16	17 9 89
	Ост	20 14 50	20 19 7		Oct.	17 6 0	17 4 8
	O NT	$\begin{cases} 4 & 9 & 12 \\ 10 & 9 & 94 \end{cases}$	4 1 7		Nov.	15 18 44	15 28 9
	Nov.	19 8 84	19 6 20		DEC.	15 7 28	15 17 11
	DEC	18 16 18	18 17 14		ه منابط لعا	10 1 23	70 71 17
	······································	· · · · · · · · · · · · · · · · · · ·				I	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 152. c. March. d. h. m. 24 7 47	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT	d. h. m.  13 20 12 (12 8 56 (27 8 18 13 21 40 12 10 24 11 28 8 10 11 52 10 0 36 (8 13 20 (23 7 42 7 2 4 6 14 48	d. h. m.  14 8 59 12 22 0 26 22 50 14 8 18 12 16 30 11 23 30 10 6 18 9 14 3 7 23 49 23 13 13 6 12 24 6 4 6	B.C. 149. G.F. March. d. h. m. 24 1 14	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT	d. h. m.  11 11 22  10 0 6  10 12 50  9 1 34  8 14 18  { 7 8 2  { 21 21 24  6 15 46  5 4 80  8 17 14  8 5 58  1 18 42	d. h. m.  11 7 16 10 1 18 10 18 50 9 10 58 9 0 58 7 12 26 21 10 11 6 22 8 5 6 47 8 15 22 8 0 40 6 1 11 10
151. 3.	Nov DEC JAN FEB	5 3 32 4 16 16 3 5 1 1 17 45	4 22 21 4 17 53 8 13 4 2 6 15		DEC. O	$ \begin{cases} 1 & 7 & 26 \\ 16 & 1 & 48 \\ 80 & 20 & 10 \end{cases} $	\( \begin{array}{cccccccccccccccccccccccccccccccccccc
24 13 36	MAR APRIL MAY . JUNE .	3 6 29 1 19 13 ( 1 7 57 (30 20 41 29 9 25	3 20 32 2 7 44 1 16 26 30 23 35 29 6 15	148. E. 24: 7 8	Jan Feb Mar April May . June .	29 8 55 27 21 39 29 10 28 27 28 7 27 11 51 26 0 85	29 8 18 27 19 10 29 11 80 28 8 82 27 18 81 26 7 57
	JULY . AUG SEPT OCT Nov DEC	28 22 9 27 10 58 25 23 37 25 12 21 24 1 5 23 18 49	28 13 36 26 22 34 25 10 4 25 0 26 23 17 29	1	JULY . AUG SEPT OCT Nov	25 18 19 24 2 8 22 14 47 22 8 81 20 16 15	25 19 49 24 6 81 22 16 41 22 2 56 20 18 84
150. A. 24 19 25	O Jan Feb Mar	25 15 49 { 7 8 11 {22 .2 84 20 15 18 22 4 2	23 12 20 7 11 24 22 7 29 21 1 28 22 16 50	147. D. 24 12 52	JAN FEB MAR	20 4 59 18 17 48 17 6 27 18 19 11	18 12 28 17 0 45 18 14 2
	APRIL MAY . JUNE . O JULY . AUG SEPT	20 16 46 20 5 30 18 18 14 3 12 36 18 6 58 16 19 42 15 8 26	21 5 21 20 15 12 18 23 16 8 5 20 18 6 34 16 14 10	- 3	APRIL O MAY . JUNE . JULY . AUG	17 7 55 (2 2 17) (16 20 89) 15 9 28 14 22 7 18 10 51	17 4 19 2 8 18 16 19 28 15 10 48 15 1 51 18 16 8
	OCT Nov DEC	15 8 26 14 21 10 18 9 54 (12 22 38 (27 17 0	14 23 1 14 9 47 12 22 50 12 14 9 28 2 30		OCT ONOV DEC	11 23 85 (11 12 19 (26 6 41 10 1 8 9 18 47	12 5 15 11 17 88 25 20 18 10 5 10 9 16 18

			ERUSALEM (	JIVIL TIME.			
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 146.		d. h. m.	d. h. m.	B.O.		d. h. m.	d. h. m.
С.	JAN.	8 2 31	8 2 58	B.C. 143	Jan	4 17 42	5 5 32
d. $h$ . $m$ .	FEB	6 15 16	6 13 16	F.	FEB	( 3 6 26	3 19 57
24 18 40	MAR	8 4 0	7 23 32	March. d. h. m.	0	18 0 48	17 19 21
	APRIL	6 16 44	6 10 18	24 12 7	Mar	4 19 10	5 7 28
	0	21 11 6	21 23 8		APRIL	3 7 54	3 16 31
	MAY .	6 5 28	5 22 14		MAY.	2 20 38	2 23 53
	June .	4 18 12	4 11 42			(1 9 22	1 6 35
	JULY.	4 6 56	4 2 40		June.	30 22 6	30 13 42
	Aug	2 19 40	2 18 41		JULY.	30 10 50	29 23 22
	SEPT	1 8 24	1 10 55		0	(14 5 12	14 11 3
	SEPT.	<b>\</b> 30 21 8	(1 2 42		Aug	28 23 34	28 9 32
	0	∫15 15 <b>3</b> 0	$\begin{vmatrix} 1 & 2 & 42 \\ 15 & 2 & 55 \end{vmatrix}$		SEPT	27 12 18	26 23 46
	Ocr	30 9 52	30 17 25		Ocr	27 1 2	26 16 55
	Nov	28 22 36	29 6 47		Nov	25 13 46	25 12 3
	DEC	28 11 20	28 18 44		Dec	25 2 30	25 7 36
				142.	Jan	23 15 15	24 1 55
145.	JAN	27 0 5	27 5 17	E.		7 9 37	7 5 36
B.A.	FEB	25 12 49	25 14 37		O Feb. ,	22 3 59	22 17 38
21 0 29	MAR	26 1 33	25 23 17	24 17 56	MAR.	23 16 43	21 6 17
	0	∫ 9 19 55	10 7 26	22 21 00	APRIL	22 5 27	22 16 5
	APRIL	<b>\24 14 17</b>	24 8 0		MAY.	21 18 11	21 23 51
	MAY .	24 3 1	23 17 44		June.	20 6 55	20 6 39
1	JUNE .	22 15 45	22 5 17		JULY.	19 19 89	19 13 35
	JULY.	22 4 29	21 19 12		0	( 3 14 1	3 15 58
	Aug	20 17 13	20 11 17		Aug	18 8 23	17 21 45
	SEPT	19 5 57	19 4 49		SEPT	16 21 7	16 8 0
	0	$\int 4  0  19$	8 16 22		Ocr	16 9 51	15 20 59
	Ост	(18 18 41	18 22 43		Nov	14 22 35	14 12 46
	Nov	17 7 25	17 15 46		DEC	14 11 19	14 6 48
	Dec	16 20 9	17 7 5	141.	JAN. ,	(13 0 3	18 1 51
				D.C.	0	27 18 25	27 20 50
144.	JAN	15 8 58	15 20 9		Fes	11 12 47	11 20 25
G.	Fen	18 21 87	14 6 57	23 28 45	MAR.	12 1 31	12 13 5
24 6 18	MAR	15 10 21	15 15 52		APRIL	10 14 15	11 8 0
	APRIL	18 28 5	13 23 32		MAY.	10 .2 59	10 14 8
	MAY.	13 11 49	13 6 58		June .	8 15 48	8 23 1
	June.	12 0 33	11 14 57		JULY.	(8 4 27	8 6 41
	July.	11 13 17	11 0 48		0	22 22 49	22 16 21
	Aug	10 2 1	9 13 18		Aug	6 17 11	6 14 10
	SEPT	8 14 45	8 4 41		SEPT	5 5 55	4 22 29
	Ocr	8 3 29	7 22 31		Ocr	4 18 89	4 8 21
	Nov	6 16 13	6 17 37		Nov	3 7 23	2 20 17
	DEC	6 4 57	6 12 25		DEC	2 20 7	2 10 27
			1				

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.
B.C. 140. B. March. d. h. m. 24 5 83	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT	d. h. m.  { 1 8 52 80 21 36  { 1 10 20 80 28 4 29 11 48 29 0 32 {12 18 54 27 13 16 27 2 0 25 14 44 24 3 28	d. h. m. 1 2 36 30 20 3 1 13 45 31 6 35 29 21 87 29 10 28 12 8 22 27 21 4 27 6 18 25 15 3 24 0 7	B.C. 137. F.E. March. d. h. m. 23 22 59	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov	d. h. m.  28 12 46  27 1 80  27 14 14  26 2 58  25 15 42  24 4 26  28 17 10  22 5 54  20 18 88  20 7 22  18 20 6	d. h. m. 28 12 28 26 22 27 27 8 36 25 19 36 25 8 5 28 22 17 28 18 56 22 6 22 20 22 45 20 14 19 19 4 87
139.	Oct Nov O Dec	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	23 10 8 21 21 22 7 8 40 21 9 56 19 23 52	136. D. 24 4 48	JAN FER MAR	18 8 50 16 21 85 15 10 19 {16 28 3 81 17 25	18 17 22 17 4 82 15 14 16 16 23 0
24 11 22	FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	18 14 56 20 6 50 18 22 55 18 14 28 1 22 18 17 4 47 16 17 36 15 5 4 13 15 43 18 2 5		APRIL MAY . JUNE . JULY . AUG SEPT O OCT Nov	15 11 47 15 0 81 18 18 15 18 1 59 11 14 48 10 3 27 24 21 49 9 16 11 8 4 55	\$\begin{cases} 1 & 8 & 80 \\ 15 & 7 & 22 \\ 14 & 16 & 16 \\ 13 & 2 & 42 \\ 12 & 15 & 22 \\ 11 & 6 & 28 \\ 9 & 23 & 84 \\ 24 & 15 & 41 \\ 9 & 17 & 89 \\ 8 & 11 & 29 \end{cases}\$
138. g. 21 17 11	Nov O Dec  Jan Feb Mar April May . O June .	$\begin{cases} 11 & 13 & 45 \\ 26 & 8 & 7 \\ 11 & 2 & 29 \end{cases}$ $\begin{array}{cccccccccccccccccccccccccccccccccccc$	11 12 39 26 9 44 10 23 38 9 10 49 7 22 31 9 11 3 8 0 32 7 15 4 22 15 29 6 6 18	135. c. 21 10 37	Jan Feb Mar O April May . June .	7 17 89 6 6 28 4 19 7 6 7 51 21 2 18 4 20 85 4 9 19 2 22 8 5 2 10 47	6 18 11 5 6 1 6 15 41 21 4 12 4 28 42 4 6 57 2 14 24 1 28 11
	JULY . AUG SEPT OCT  ONOV DEC	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 21 42 4 12 36 3 2 36 2 15 37 { 1 3 48 15 9 10 30 15 16 80 2 9		Aug  O SEPT Oct Nov Dec	\\ 81 28 81 \\ 80 12 15 \\ \{14 6 87 \\ 29 0 59 \\ 28 18 48 \\ 27 2 27 \\ 26 15 11 \end{array}	81 10 18 80 0 18 14 7 58 28 17 7 28 11 54 27 7 11 27 1 22

				OIVIL IIM	<del></del>		
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mesn Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 134. B. March, d. h. m 24 16 26	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	d. h. m.  25	d. h. m.  25 17 11  21 6 4  10 6 16  25 16 10  24 0 8  28 6 59  21 13 44  20 21 31  19 7 24  3 20 58  17 20 9  17 11 58  16 6 19  16 1 52	B.C. 131. E. March. d. h. m. 24 9 52	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT Nov	a. h. m.  { 7 0 45 {21 19 5 20 7 50 21 20 34 20 9 18 19 22 2 18 10 46 { 8 5 8 {17 28 30 16 12 14 15 0 58 14 18 42 18 2 26	d. h. m. 7 11 12 21 15 9 20 8 87 22 1 49 20 17 45 20 7 40 18 19 27 2 17 11 18 5 30 16 14 87 14 28 89 14 9 19 12 20 1
133. A.G. 23 22 15	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	14 12 45 13 1 29 13 14 13 12 2 57 11 15 41 10 4 25 9 17 9 8 5 53 6 18 87 6 7 21 4 20 5 4 8 49	14 20 57 18 14 1 14 4 8 12 15 18 11 28 51 10 7 1 9 18 49 7 21 21 6 6 85 5 18 14 4 8 41 4 1 89	130. p. 24 15 41	DEC O JAN FEB MAR APRIL MAY . JULY . AUG SEPT OCT Nov	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	12 7 52 27 20 59 10 20 57 9 11 11 11 2 25 9 18 16 9 10 2 8 1 3 22 5 41 7 14 49 6 4 14 24 4 1 7 2 11 45
132. F.	JAN  O FEB MAR APRIL MAY .  JUNE .  O JULY . AUG SEPT OCT NOV DEC	29 1 57 {18 20 19 {28 14 41 27 8 25 25 16 9 25 4 58 28 17 87	2 20 16 17 20 11 1 15 5 8 8 42 1 23 58 1 12 26 80 22 24 29 6 88 18 11 58 28 14 14 26 22 12 25 7 24 24 18 22 28 7 24 22 22 28	129. c.b. 28 21 30	DEC  JAN FEB MAR APRIL. O MAY . JUNE . JULY . AUG SEPT OCT O Nov DEC	1 1 23 58 81 12 42 80 1 27 28 14 11 29 2 55 27 15 89 12 10 1 27 4 28 25 17 7 25 5 5 1 28 18 85 22 7 19 21 20 8 5 14 25 20 8 47 19 21 81	2 11 45 1 22 32 81 9 31 29 20 49 28 8 37 28 21 17 27 11 8 12 15 46 27 1 58 25 17 17 25 8 39 28 28 24 22 18 12 22 2 4 5 4 19 20 14 4 20 1 15

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 128. A. March. d. h. m. 24 3 19	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT O NOV PEC	d. h. m.  18 10 15 16 23 0 18 11 44 17 0 28 { 1 18 50 16 13 12 15 1 56 14 14 40 13 3 24 11 16 8 { 11 4 52 25 23 14 9 17 36 9 6 20	d. h. m.  18 11 48  16 21 38  18 7 21  16 17 35  2 6 24  16 5 4  14 18 17  14 9 16  13 1 38  11 18 18  11 10 40  25 11 23  10 1 54  9 15 38	B.C. 125. E.D. March. d. h. m. 23 20 45	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	d. h. m.  16 1 26 {14 14 10 29 8 32 15 2 54 13 15 38 13 4 22 11 17 6 11 5 50 { 9 18 34 24 12 56 8 7 18 7 20 2 6 8 46 5 21 30	d. h. m.  16 18 42  15 4 1  29 8 8  15 15 21  14 0 11  18 7 28  11 14 0  10 21 10  9 5 58  24 18 85  7 17 18  7 7 89  6 0 54  5 20 8
127. g. 24 9 8	JAN FRB MAR APRIL O MAY . JUNE . JULY . AUG SEPT O OCT NOV DEC JAN FEB MAR	7 19 4 6 7 48 7 20 32 { 6 9 16 21, 3 88 5 22 0 4 10 44 3 23 28 2 12 12 { 1 0 56 30 13 40 { 15 8 2 30 2 24 28 15 8 28 3 52 26 16 37 25 5 21 26 18 5	8 3 30 6 18 49 7 22 47 6 7 1 21 14 20 5 15 20 4 0 43 3 12 9 { 2 2 4 31 18 22 30 12 19 15 0 59 30 6 39 29 0 6 28 15 36 27 4 38 25 15 12 26 23 48	124. c. 24 2 34 123. B. 24 8 23	JAN FEB O MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC JAN O FEB APRIL	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4 15 30 8 9 89 17 18 49 5 1 18 8 18 44 2 28 28 1 7 18 80 14 8 29 21 17 18 22 55 28 5 42 26 16 11 26 5 16 24 21 1 24 14 50 28 9 85 7 5 22 22 3 48 28 20 14 22 10 4
	APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	25 6 49 24 19 38 28 8 17 22 21 1 21 9 45 19 22 29 19 11 18 17 28 57 17 12 41	25 7 10 24 14 17 22 22 11 22 8 0 20 20 35 19 12 9 19 6 14 18 1 34 17 20 34	,	APRIL MAY . JUNE . JULY . O AUG SEPT OCT Nov DEC	21 21 59 21 10 48 19 28 27 19 12 11 {	22 10 4 21 21 18 20 6 18 19 14 14 2 28 9 17 22 7 16 6 48 15 16 56 14 4 57 18 18 56

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	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Monuh.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
	B.C. 122.		d. h. m.	d. h. m.	B.C. 119.		d. h. m.	d. h. m.
4	March.	JAN	12 16 85	12 10 42	March.	JAN	9 7 45	9 10 59
1	d. h. m.	FEB	11 5 19	11 3 37	d. h. m.	FEB	7 20 29	7 20 58
1	24 14 12	MAR	12 18 3	12 20 51	24 7 38	MAR.	9 9 13	9 6 27
		APRIL	11 6 47	11 13 22		APRIL	7 21 57	7 16 5
		MAY.	10 19 81	11 4 18		MAY .	7 10 41	7 2 37
		JUNE.	9 8 15	9 17 13	'	June .	5 23 25	5 14 46
		July.	8 20 59	9 4 14		JULY .	5 12 9	5 4 52
		Aug	7 9 48	7 13 55		Aug	4 0 53	3 20 39
		SEPT	5 22 27	5 23 9		SEPT	2 13 37	2 13 31
		Oct	5 11 11	5 8 41			(2 2 21	2 6 26
1		Nov	8 28 55	8 18 57		Ост	(81 15 5	81 22 84
ı		DEC	S 12 39	8 6 13		Nov	80 3 49	80 13 15
		0	18 7 1	18 6 54		DEC	29 16 83	30 2 6
,		1	(2 1 21	1 10 00				
1	121.	JAN	14	1 18 33	118.	JAN	28 5 18	00 10 0
	G.F.	76	(81 14 8	81 7 59	c.	FEB.	26 18 2	28 13 9
		FEB		29 22 27	24 18 27			26 22 35
	28 20 1	MAR.	$\begin{bmatrix} 1 & 2 & 52 \\ 0 & 17 & 99 \end{bmatrix}$		22 10 21	MAR		28 6 53
			(80 15 86	80 18 46		0	12 1 8	12 10 81
		APRIL	29 4 20	29 5 29		APRIL	126 19 80	26 14 50
		MAY.	28 17 4	28 20 56		MAY.	26 8 14	25 28 24
1		_ 0	12 11 26	12 5 40		JUNE.	24 20 58	24 9 87
ł		June.	(27 5 48	27 11 27		JULY.	24 9 42	28 22 15
1		JULY.	26 18 32	27 0 42		Aug	22 22 26	22 13 29
		Aug.	25 7 16	25 12 44		SEPT	21 11 10	21 6 54
		SEPT	28 20 0	28 28 57		0	$\begin{cases} 6 & 5 & 82 \\ 20 & 20 & 74 \end{cases}$	6 0 14
1		Oct	28 8 44	23 10 48		Oct.	120 28 54	21 1 25
		Nov	21 21 28	21 21 85		Nov	19 12 88	19 19 39
l		_ 0	$\int 6 15 50$	6 17 41		DEC	19 1 22	19 12 20
		DEC	(21 10 12	21 8 27				
	120.	JAN	19 22 57	19 19 26	117.	JAN	17 14 7	<b>18</b> 2 <b>3</b> 9
	к.	FEB	18 11 41	18 6 41	В.А.	FEB	16 2 51	16 14 20
	24 1 50	Mar	20 0 23	19 18 84	28 19 16	MAR	<b>∫16 15 8</b> 5	16 28 42
		APRIL	18 18 9	18 7 29		0	181 9 57	81 11 5
		MAY .	18 1 58	17 21 88		APRIL	15 4 19	15 7 27
		0	( 1 20 15	1 22 56		MAY .	14 17 3	14 14 21
	į	June .	16 14 87	16 12 46		June .	18 5 47	12 21 42
1		JULY .	16 8 21	16 4 20		JULY .	12 18 81	12 6 26
		Aug	14 16 5	14 19 42		Aug	11 7 15	10 17 85
		SEPT	18 4 49	18 10 17		SEPT	∫ 9 19 59	9 7 44
		OUT	12 17 88	12 28 56		0	24 14 21	24 16 14
	1	Nov	(11 6 17	11 12 88		Ocr	9 8 48	9 0 46
		0	26 0 89	25 17 16		Nov	7 21 27	7 19 48
		DEC	10 19 1	11 0 18		DEC	7 10 11	7 15 14
L		i						

Month   Mont								
116. G. March. d. h. m. 24 1 5  April 4 18 7 4 23 51 MAY. 4 1 51 4 7 41 June. 2 14 85 2 14 24 July. {2 3 19 1 21 11	True Ne Moon. (O Full E	Moon.	Month.	Vernal	Moon.	Moon.	Month.	Vernal
0 6 17 16 7 5	18 19 4 1 22 5 2 15 5 1 8 4 { 1 0 5 80 14 5 29 2 2 13 0 1 28 12 5 26 22 8 24 18 28 4 5	\[ \begin{array}{cccccccccccccccccccccccccccccccccccc	FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OOT Nov	113. D.C. March. d. h. m. 23 18 31	6 9 28 5 1 14 6 18 57 20 13 35 4 23 51 4 7 41 2 14 24 1 21 11 81 5 5 29 15 8 14 4 50 28 4 25 27 19 57 26 14 19	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	FEB MAR O APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV	116. G. March. d. h. m.
F.   Feb.   28 9 12   28 21 36   B.   Feb.   20 0 22   19 18   24 6 54   Mar.   24 21 56   25 11 34   April   28 10 40   23 22 31   May   22 23 24   23 7 11   June   21 12 8   21 14 26   July   21 0 52   20 21 26   Aug.   19 18 36   19 5 15   Sept.   18 2 20   17 14 44   Oct.   17 15 4   17 2 34   Nov.   16 3 48   15 17   1   Dec.   15 16 32   15 9 48    114.   E	7 5 1 21 5 1 19 18 5 21 9 8 20 0 5 19 16 8 18 7 8 2 18 17 21 4 16 10 8 14 22 2 14 9 4 12 20 8 12 7 8 10 18 11 9 5 11 10 16 2 8 17 41 28 28 11 7 8 26 6 28 44 5 15 8 4 6 5	\[ \begin{array}{cccccccccccccccccccccccccccccccccccc	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC JAN FEB MAR APRIL MAY . O JUNE . JUNE . JUNE . JUNE . SEPT	24 0 20 111.	25 4 42 28 21 36 25 11 34 28 22 31 28 7 11 21 14 26 20 21 26 19 5 15 17 14 44 15 17 1 15 9 48 14 4 5 29 4 49 12 22 84 14 15 52 13 6 59 12 19 27 11 5 34 10 14 4 24 18 46 8 22 8	24 20 28 23 9 12 24 21 56 23 10 40 22 28 24 21 12 8 21 0 52 19 13 36 18 2 20 17 15 4 16 3 48 15 16 32 (14 5 17 (28 28 39 12 18 1 14 6 45 12 19 29- 12 8 13 10 20 57 {10 9 41 {25 4 3 8 22 25	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC  JAN O FHE MAR . JUNE . JULY . O AUG	24 6 54 114.
DEC. 5 1 21 4 16 1 0 (16 22 9 16 12		(16 22 9 { 1 16 81	. 0		5 3 3	5 12 37	ì	

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 110.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
G. March.	JAN	29 17 59	29 20 22	107.	JAN	26 9 9	26 21 42
d. h. m.	FEB	28 6 43	28 5 50	C. March.	Fев	24 21 53	25 11 54
24 11 58	MAR.	29 19 27	29 15 3	d. h. m.	0	$\begin{cases} 11 & 16 & 15 \end{cases}$	11 10 37
	APRIL	28 8 11	28 0 47	24 5 21	MAR	126 10 37	26 23 4
-	0	$\begin{cases} 13 & 2 & 33 \\ 27 & 22 & 77 \end{cases}$	13 13 33		APRIL	24 23 21	25 7 43
1	MAY .	127 20 55	27 11 52		MAY.	24 12 5	24 14 49
	JUNE.	26 9 39	26 0 54		June.	23 0 49	22 21 28
	JULY.	25 22 23	25 15 57	1	July.	22 13 33	22 4 44
	Aug	24 11 7	24 8 32		Aug	21 2 17	20 13 41
	SEPT	22 23 51	23 1 48		0	<b>4</b> 20 39	5 2 10
	Ост.	22 12 35	22 18 42		SEPT	19 15 1	19 1 12
	0	$\begin{cases} 6 & 6 & 57 \\ 0.1 & 1.10 \end{cases}$	5 19 58		Oct	19 8 45	18 15 41
	Nov.	21 1 19	21 10 23		Nov	17 16 29	17 8 56
	DEC	20 14 8	21 0 16		DEC	17 5 13	17 3 59
100	T	10 0 10	10 10 11	106.	JAN	15 17 58	15 23 19
109. F.E.	JAN	19 2 48	19 12 11	В.	FEB	14 6 42	\[ \begin{aligned} \begin{aligned} \begin{aligned} 14 & 17 & 15 \\ 000 & 01 & 10 \end{aligned} \]
	FEB	17 15 32 18 4 16	17 22 15		0	$\{1\ 1\ 4$	$\chi_{28} = 21.58$
28 17 47	MAR		18 6 50	21 11 13	Mar	15 19 26	16 8 39
	APRIL	16 17 0	16 14 39		APRIL	14 8 10	14 21 3
	0	1 11 22	1 21 7		MAY .	13 20 54	14 6 45
	MAY .	14 18 28	15 22 36		June.	12 9 38	12 14 36
	JUNE.		14 7 47		JULY.	11 22 22	11 21 42
	JULY.	14 7 12 12 19 56	13 19 5 12 9 4	1	Aug	$\{10\ 11\ 6$	10 5 6
1	Aug			i •	0	125 5 28	25 5 59
	SEPT	11 8 40	11 1 83	ı	SEPT	8 23 50	8 13 49
ŧ	Oct	{10 21 24	10 19 56		Ocr. ,	8 12 84	8 0 32
	Nov	25 15 46	25 9 48		Nov	7 1 18	6 13 42
	DEC.	9 10 8 8 22 52	9 14 40 9 8 25	1	DEC	6 14 2	6 5 19
ļ.	DEC	6 22 52	9 6 20	105.	JAN	5 2 46	4 22 49
	_			A.G.	FEB	f 8 15 30	8 17 9
108.	JAN	7 11 37	8 0 1		0	18 9 52	18 18 47
D.	FEB	6 0 21	6 12 58	28 17 2	MAR.	4 4 14	4 11 1
28 23 36	MAR.	7 13 5	7 28 19		APRIL	2 16 58	8 8 12
1	APRIL	6 1 49	6 7 87	1		1 2 5 42	2 16 59
	MAY .	5 14 33	5 14 42	-	MAY .	\81 18 26	(1 4 16
	June .	4 8 17	8 21 39		June .	80 7 10	80 18 36
	JULY.	8 16 1	8 5 80		JULY .	29 19 54	29 21 54
	Aug	$\begin{cases} 2 & 4 & 45 \end{cases}$	1 15 21		0	(18 14 16	18 6 8
		181 17 29	81 4 1		Aug	128 8 88	28 6 10
	SEPT.	80 6 18	29 19 47		SEPT	26 21 22	26 15 18
	Oct	29 18 57	29 14 8		Oct	26 10 6	26 1 86
Į.	Nov.	28 7 41	28 9 33		Nov	24 22 50	24 18 89
	DEC	27 20 25	28 4 87	.	DEC	24 11 84	24 8 25
[		1		l		1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 104.		d. h. m.	d. h. m.	B.C. 101.		d. h. m.	d. h. m.
F.	JAN	23, 0 19	22 18 43	C.B.	JAN	20, 15 29	20 19 45
March.	FEB	21.13 3	21 11 5	March.	FEB	19, 4 13	19 5 22
d. h. m. 23 22 51	MAR.	23 1 47	23 3 49	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	MAR.	19.16 57	19 14 28
	APRIL	21, 14 31	21 20 3		APRIL	18 5 41	17 23 30
	MAY .	21 3 15	21 10 57		May .	17 18 25	17 9 87
1	JUNE.	19, 15 59	20 0 4		June .	16. 7 9	15 21 29
	JULY.	19 4 43	19 11 28		JULY .	15. 19 58	15 11 82
1	Aug	17. 17 27	17 21 40		Aug.	14. 8 37	14 8 88
	SEPT	16. 6 11	16 7 25		SEPT.	12 21 21	12 20 48
	Oct.	15 18 55	15 17 20		Oct.	12.10 5	12 14 17
	Nov.	14. 7 39	14 3 51		Nov.	10, 22, 49	11 6 55
	Dec.	(13, 20, 23	13 15 6		DEC.	10 11 83	10 21 52
	DEC	28 14 45	29 1 7		DEC	10 11 55	10 21 32
	O	(20, 14, 40	20 1 1		_		
103.	Jan	12 9 8	12 3 8	100.	JAN	9 0 18	9 10 49
E.	FEB	10 21 52	10 16 0	Α.	FEB	7 13 2	7 21 40
24 4 40	MAR	12, 10 36	12 5 51	23 22 6	MAR	9. 1 46	9 6 44
	APRIL	10 23 20	10 20 38		APRIL	∫ 7. <b>14</b> 30	7 14 89
	MAY .	10.12 4	10 12 1		0	122 8 52	22 17 16
	JUNE.	§ 9 0 48	9 3 24		MAY .	7 8 14	6 22 15
	0	<b>\23</b> 19 10	23 13 6		June.	5 15 58	5 6 88
	JULY.	8, 13, 32	8 18 10		July.	5. 4.42	4 16 87
	Aug	7. 2 16	7 7 54		Aug	8 17 26	8 5 16
	SEPT	5 15 0	5 20 32		SEPT	2 6 10	1 20 41
	Oct	5 3 44	5 8 19			1 18 54	1 14 25
	Nov	3. 16 28	3 19 35		Oct. O	<b>}16 13 16</b>	16 8 55
	DEC	3 5 12	3 6 35			<sup>(</sup> 31 7 38	31 9 17
	0	17, 23 34	18 1 40		Nov	29 20 22	80 8 50
		( 1· 17 56	1 17 20		DEC	29. 9 6	29 20 41
102.	JAN	31 6 40	31 3 57				ľ
D.	FEB		01 0 01	99.	JAN	27 21 50	28 10 58
		( 1 19 24	1 14 40	G.	FEB.	26 10 34	26.22.29
24 10 29	MAR	31 8 8	31 1 57	24 3 55	MAR	27 23 18	28 7 34
	APRIL	29 20 52	29 14 21		0	(11. 17 40	11 17 50
	MAY.	29 9 36	29 4 9		APRIL	26 12 2	26 15 2
	0	(13 3 58	13 6 20		MAY .	26 0 46	25 21 51
	June.	27, 22, 20	27 19 14		June .	24 18 80	24 5 8
	JULY.	27 11 4	27 11 3		JULY.	24 2 14	28 18 47
	Aug.	25 23 48	26 2 52		Aug	22 14 58	22 1 3
	SEPT	24 12 32	24 18 6		SEPT.	21 3 42	20 15 21
	Ост.	24. 1 16	24 8 18		0	1 5 22 4	6 0 43
	Nov.	22.14 0	22 21 19		Oct	20 16 26	20 8 88
	0	7. 8 22	7 1 24		Nov.	19 5 10	19 8 42
	DEC	22 2 44	22 9 7		DEC.	18 17 54	18 28 14
			U 1			OH	70 70 14
					1		1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 98. F. March. d. h. m. 24 9 44	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT Nov	d. h. m.  17. 6 89 15. 19. 28 17. 8. 7 { 1. 2. 29 { 15. 20. 51 15. 9. 35 18. 22. 19 18. 11. 3 11. 23. 47 { 10. 12. 31 { 25. 6. 58 10. 1. 15 8. 18. 59	d. h. m. 17 17 28 16 9 7 {17 21 42 31 20 49 16 7 26 15 15 7 13 21 52 13 4 44 11 12 49 9 23 3 25 12 50 9 12 6	B.C. 95. B. March. d. h. m. 24 3 10	JAN  O FEE  MAR  APRIL  MAY .  JUNE .  O AUG  SEPT  OCT	d. h. m. {13 21 49 {28 16 11 12 10 33 13 23 17 12 12 1 12 0 45 10 13 29 {10 2 13 {24 20 35 8 14 57 7 3 41 6 16 25	d. h. m.  13 15 1 29 4 14 12 6 38 13 22 59 12 15 24 12 6 59 10 21 5 10 9 29 24 7 29 8 20 27 7 6 36 6 16 36
97. E.D. 28 15 33	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEFT OCT NOV	8 13 59 8 2 43 6 15 28 5 4 12 5 16 56 4 5 40 3 18 24 2 7 8 1 19 52 81 8 36 29 21 20 28 10 4 27 22 48 26 11 32 26 0 16	8 4 4 7 22 20 6 17 88 5 12 20 6 5 1 4 18 52 4 5 49 2 14 30 1 21 55 81 5 12 29 13 18 27 23 8 27 11 2 26 1 26 25 17 58	94. A. 24 8 59	Nov DEC  JAN  FEB MAR APRIL MAY .  JUNE . O JULY . AUG SEPT OCT Nov DEC	5 5 9 4 17 53 { 8 6 37 { 18 0 59 1 19 21 8 8 5 1 20 49 { 1 9 83 { 80 22 17 29 11 1 { 14 5 28 28 23 45 27 12 29 26 1 13 25 13 57 24 2 41 23 15 25	5 2 57 4 18 51 8 1 22 18 13 22 1 13 38 8 2 37 1 16 39 1 7 84 80 22 57 29 14 10 13 20 38 29 4 39 27 18 7 26 6 35 25 18 19 24 5 84 28 16 27
96. c. 23 21 22	JAN  O FEB  MAR  APRIL  MAY .  JUNE .  JULY .  O AUG  SEPT  OCT  NOV  DEC	24 18 0	24 11 50 8 18 21 28 5 54 24 22 52 23 18 51 28 2 24 21 12 42 20 21 85 4 1 87 19 5 58 17 14 44 17 0 83 15 11 49 15 0 89	93. G.F. 28 14 48	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV O DEC	22 4 10 20 16 54 21 5 38 19 18 22 19 7 6 3 1 28 17 19 50 17 8 34 15 21 18 14 10 2 18 22 46 (12 11 30 27 5 52 12 0 14	22 2 59 20 18 22 21 0 1 19 11 81 19 0 25 8 6 89 17 14 49 17 6 24 15 22 81 14 14 25 14 5 26 12 19 18 26 20 45

Mean Vernal	Month.	Mean New Moon.	True New	Mean Vernal	Month.	Mean New Moon.	True New Moon,
Equinox.			(C Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
B.C. 92.		d. h. m.	d. h. m.	B.C. 89.		d. h. m.	d. h. m.
March.	JAN	10 12 59	10 <b>1</b> 8 59	B.A.	JAN	8 4 9	8 12 85
d. h. m.	Feb	9 1 43	9 4 55	d, $h$ , $m$ .	FEB	6 16 58	7 5 85
23 20 37	MAR	10 14 27	10 13 56	23 14 8	MAR	5 7 5 87	7 19 88
	APRIL	9 3 11	8 22 39		0	(21 28 59	21 18 6
	MAY .	§ 8 15 55	8 7 56		APRIL	5 18 21	6 6 88
	0	(23 10 17	23 20 39		MAY.	5 7 5	5 15 12
	JUNE.	<b>7 4</b> 39	6 18 43		June.	8 19 49	8 22 16
	July.	6 17 23	6 7 36		Jura.	8 8 83	8 4 59
	Aug	5 6 7	4 22 45		Aug	$\begin{cases} 1 & 21 & 17 \end{cases}$	1 12 26
	SEPT	3 18 51	3 15 40			(81 10 1	80 21 83
	Ост	3 7 35	3 9 25		0	§15 4 28	15 9 55
	Nov	1 20 19	2 2 49		SEPT	29 22 45	29 9 16
	0	(16 14 41	16 4 37		Ост	29 11 29	28 28 51
	Dec	$\begin{cases} 1 & 9 & 3 \\ 22 & 24 & 47 \end{cases}$	1 18 53		Nov.	28 0 18	27 17 4
		(30 21 47	31 8 55		DEC	27 12 57	27 11 55
				88.	JAN	26 1 41	26 6 58
91.	JAN	29 10 31	29 20 44	G.	FEB	24 14 25	25 0 42
D.	FEB	27 23 15	28 6 30		0	(11 8 47	11 5 57
24 2 26	MAR	29 11 59	29 14 42	23 19 52	MAR	₹26 8 9	26 15 55
	APRIL	28 0 43	27 22 11		APRIL	24 15 58	25 4 14
		(12 19 5	13 3 48		MAY .	21 4 87	24 18 58
	MAY.	27 13 27	27 5 53		June.	22 17 21	22 21 58
	JUNE.	26 2 11	25 14 52		JULY.	22 6 5	22 5 20
	JULY.	25 14 55	25 2 8		Aug	20 18 49	20 18 8
	Aug Sept	24 3 39	23.16 14		0	ς 4 18 11 ·	4 18 10
	Ост	22 16 23	22 9 2		SEPT	(19 7 88	18 22 5
		22 5 7	22 3 39		Ocr. ,	18 20 17	18 9 0
	O Nov.	20 17 51	5 18 83 20 22 48		Nov	17 9 1	16 22 12
	DEC	20 6 85	20 22 45 20 16 39		DEC	16 21 45	16 18 87
	220	20 0 00	20 10 55	87.	JAN.	15 10 80	15 6 45
90.	T	10 10 00	10 0 00	F.	FEB.	(18 28 14	14 0 87
c.	JAN Feb	18 19 20	19 8 20	•	0	28 17 86	28 22 4
24 8 15	MAR.	17 8 4 18 20 48	17 21 8	24 1 41	MAR	15 11 58	15 18 7
- C 13	APRIL	17 9 32	19 7 15		APRIL	14 0 42	14 10 4
,	MAY.	16 22 16	17 15 17 16 22 12		MAY .	18 18 26	18 28 50
	JUNE.	15 11 0	15 22 12 15 5 1		June .	12 2 10	12 11 18
	JULY.	14 23 44	14 12 52		JULY.	11 14 54	11 20 58
	Aug.	13 12 28	12 22 49		Aug.	(10 8 88	10 5 40
	SEPT.	12 1 12	11 11 38		0	24 22 0	24 18 7
	Ост.	11 13 56	11 8 32		SEPT	8 16 22	8 14 21
	Nov	10 2 40	9 21 57		Ocr	8 5 6	7 28 47
	DEC	9 15 24	9 17 31		Nov	6 17 50	6 10 21
			J 21 01		DEC	6 6 84	5 22 23
'		!				1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 86. E. March. d. h. m. 24 7 30	JAN FEB MAR APRIL MAY . JUNE . AUG SEPT OCT NOV DEC	d. h. m. 4 19 19 8 8 3 4 20 47 8 9 31 2 22 15 { 1 10 59 80 23 43 80 12 27 29 1 11 27 13 55 27 2 39 25 15 23 25 4 7	d. h. m. 4 11 53 8 2 38 4 18 26 3 10 40 8 2 38 1 17 32 { 1 6 55 30 18 47 29 5 31 27 15 47 27 2 7 25 12 49 24 23 57	B.C. 83. A. March. d. h. m. 24 0 56	JAN  Feb  MAR  APRIL MAY .  JUNE .  JULY .  AUG  SEPT  OCT  Nov	d. h. m.  { 1 10 29 80 23 13 }  { 1 11 57 81 0 41 29 13 25 29 2 9 27 14 53 27 8 37 25 16 21 24 5 5 28 17 49 22 6 33	d. h. m.  1 17 58 81 4 24 1 13 36 80 22 9 29 6 51 28 16 35 27 4 16 26 18 19 25 10 35 24 4 15 28 22 12 22 15 15
85. D.C. 28 13 19	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV	\[ \begin{array}{c} \{ 8 & 22 & 29 \\ 28 & 16 & 51 \\ 22 & 5 & 35 \\ 22 & 18 & 19 \\ 21 & 7 & 3 \\ 20 & 19 & 47 \\ 19 & 8 & 81 \\ \{ 4 & 2 & 53 \\ 18 & 21 & 15 \\ 17 & 9 & 59 \\ 15 & 22 & 48 \\ 15 & 11 & 27 \\ 14 & 0 & 11 \\ \{ 13 & 12 & 55 \\ 28 & 7 & 17 \end{array} \]	9 9 12 23 11 36 21 23 55 22 13 10 21 3 24 20 18 28 19 9 51 3 20 38 19 0 55 17 15 10 16 4 25 15 16 46 14 4 27 13 15 38 28 9 38	82. c. 24 6 45	JAN FEB MAR APRIL O MAY . JULY . AUG SEFT O Nov DEC JAN	21 19 17 20 8 1 18 20 45 20 9 29 18 22 18 { 3 16 35 18 10 57 16 23 41 16 12 25 15 1 9 18 13 53 {18 2 37 27 20 59 11 15 21 11 4 5 9 16 50	22 6 28 20 19 28 19 6 1 20 14 45 18 22 19 3 28 56 18 5 38 16 18 44 15 28 44 14 12 25 18 4 1 12 22 2 27 17 41 11 17 12 11 11 59 10 4 56
в. 28 19 8	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV	12 1 40 10 14 24 12 3 8 10 15 52 10 4 36 { 8 17 20 28 11 42 8 6 4 6 18 48 5 7 82 4 20 16 8 9 0 { 2 21 44 17 16 6	12 2 10 10 12 22 11 22 32 10 9 16 9 21 11 8 10 42 28 13 47 8 1 46 6 17 52 5 10 12 5 2 1 3 16 46 3 6 7 17 9 84	F.E. 28 12 84	FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT OCT. O NOV DEC	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 19 9 9 6 28 7 15 20 22 0 81 6 22 85 5 5 16 4 12 28 2 21 17 { 1 8 40 80 28 7 16 9 17 80 16 27 29 11 40 29 7 10

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 80. b. March. d. h. m. 23 18 23	Jan Feb Mar O APRIL May . JUNE . JULY . AUG SEPT O Oct Nov Dec	d. h. m. 27 14 28 26 3 7 27 15 51 {11 10 18 26 4 35 25 17 19 24 6 3 23 18 47 22 7 31 20 20 15 { 5 14 37 {20 8 59 18 21 48 18 10 27	d. h. m. 28 1 21 26 16 51 28 5 16 11 3 57 26 14 58 25 22 38 24 5 21 28 12 22 21 20 40 20 7 8 5 20 56 19 20 19 18 12 16 18 6 28	B.C. 77. A.G. March. d. h. m. 23 11 49	JAN  O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC	d. h. m. 25 5 82 8 28 54 23 18 16 24 7 0 22 19 44 22 8 28 20 21 12 20 9 56 4 4 18 18 22 40 17 11 24 17 0 8 15 12 52 15 1 86	d. h. m. 24 28 10 9 12 82 23 14 12 24 6 1 22 22 2 22 13 80 21 8 45 20 16 84 8 14 49 19 4 4 17 14 47 17 1 15 15 11 58 14 22 46
79. c. 24 0 12	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	16 28 11 15 11 55 17 0 39 15 18 28 15 2 7 13 14 51 13 3 35 11 16 19 10 5 3 9 17 47 8 6 31 7 19 15	17 1 23 15 19 49 17 12 16 16 2 0 15 12 57 18 21 47 18 5 27 11 18 1 9 21 28 9 7 32 7 19 37 7 9 58	76. F. 23 17 38	JAN.  O FEB.  MAR.  APRIL MAY  JUNE  JULY  O AUG.  SEPT.  OCT.  NOV.  DEC.	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	18 10 2 28 21 28 11 21 44 18 10 10 11 28 37 11 14 8 10 5 28 9 20 47 24 4 9 8 11 48 7 1 46 6 14 51 5 8 8 4 14 88
78. B. 24 6 1	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG. O SEPT OCT NOV DEC	6 8 0  { 4 20 44  { 19 15 6  6 9 28  4 22 12  4 10 56  2 23 40  2 12 24  { 1 1 8  15 19 30  80 18 52  29 2 36  28 15 20  27 4 4  26 16 48	6 2 4 4 19 28 19 21 45 6 18 5 5 5 46 4 20 38 3 9 17 2 19 54 1 5 10 15 8 89 30 14 0 28 23 12 28 9 20 26 20 39 26 9 17	<b>75.</b> E. 28 28 27	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV	2 28 10 1 11 54 8 0 88 1 18 22 { 1 2 6 80 14 50 { 14 9 12 29 8 84 28 16 18 27 5 2 25 17 46 25 6 30 28 19 14 { 8 18 36 { 28 7 58	8 1 21 1 11 84 2 21 28 {1 7 83 80 18 88 80 7 4 14 18 58 28 21 20 28 13 6 27 5 88 25 22 5 25 18 41 24 8 58 8 5 4 28 16 88

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
B.C. 74.		d. h. m.	d. h. m.	B.C. 71.		d. h. m.	d. h. m.
March.	Jan	21 20 42	22 3 41	G. Manah	JAN	18 11 52	18 20 26
d. h. m.	FEB	20 9 26	20 13 17	March. $d. h. m.$	FEB	17 0 36	17 13 18
24 5 16	MAR	21 22 10	21 21 52	23 22 42	MAR	18 13 20	19 3 11
	APRIL	20 10 54	20 6 10		0	§ 2 7 42	2 1 27
	MAY .	19 23 38	19 15 5		APRIL	17 2 4	17 14 5
	0	[ 3 18 0	4 3 42		MAY .	<b>16 14 4</b> 8	16 22 35
	June .	(18 12 22	18 1 35		June .	15 3 32	15 5 42
	July.	18 1 6	17 14 24		JULY.	14 16 16	14 12 32
	Aug.,	16 13 50	16 5 40		Aug	13 5 0	12 20 13
	SEPT	15 2 34	14 22 56		SEPT	<b>∫11 17 44</b>	11 5 37
	Our	14 15 18	14 17 7		0	(26 12 6	26 17 44
	Nov	18 4 2	18 11 0		Oct	11 6 28	10 17 29
	_ 0	27 22 24	27 13 20		Nov	9 19 12	9 8 7
	DEC	12 16 46	13 3 21		DEC	9 7 56	9 1 11
. 70	~	11 5 01	11 17 00	70.	Jan	7 20 41	7 19 47
73. c.b.	JAN	9 18 15	11 17 28	F.	FEB	6 9 25	6 14 33
	FEB	10 6 59	10 5 9 10 14 37	24 4 31	MAR	§ 7 22 9	8 7 58
23 11 5	MAR.	8 19 48	8 22 31	•	0	(22 16 31	22 13 50
	APRIL May.	(8 8 27	8 5 40		APRIL	6 10 53	6 23 2
	0	28 2 49	28 10 27		MAY.	5 23 37	6 11 20
	June .	6 21 11	6 18 9		JUNE.	4 12 21	4 21 10
	July.	6 9 55	5 22 2		JULY.	4 1 5	4 5 28
	Aug	4 22 89	4 9 19		A.UG	2 13 49	$\begin{cases} 2 & 18 & 3 \\ 31 & 21 & 9 \end{cases}$
	SEPT.	3 11 23	2 23 83		G	11	15 20 30
	Ocr	8 0 7	2 16 85		SEPT. C	80 15 17	30 6 80
	Nov	( 1 12 51	1 11 29		Oct	80 4 1	29 17 87
1	0	16 7 18	16 3 29		Nov.	28 16 45	28 6 47
	~	(1 1 85	1 6 47		DEC.	28 5 29	27 21 55
	DEC	80 14 19	81 0 51		_		
l				69. E.D.	JAN.	26 18 14	26 14 86
72.	JAN	29 8 4	29 16 29	12.10.	FEB	25 6 58	25 7 59
۸.	FEB	27 15 48	28 5 9	00 10 00	O M	11 1 20	11 6 12
28 16 54	MAR.	29 4 32	29 15 8	28 10 20	MAR.	25 19 42	26 1 4
į	APRIL	27 17 16	27 22 54		APRIL	24 8 26 28 21 10	24 16 50
	MAY .	27 6 0	27 5 40		MAY . June .	25 21 10	22 18 19
	June .	25 18 44	25 12 27		JULY.	21 22 38	22 4 21
	JULY.	25 7 28	24 20 22		Aug.	20 11 22	20 18 82
	Aug	28 20 12	28 6 27		0	(4 5 44	8 20 20
1	SEPT	22 8 56	21 19 25	H .	SEPT	19 0 6	18 22 41
1	Oct	21 21 40	21 11 27		Oct.	18 12 50	18 8 29
	Nov	20 10 24	20 5 55		Nov.	17 1 84	16 19 17
1	DEC	19 23 8	20 1 28		DEC	16 14 18	16 7 11
		1				1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 68.	<u> </u>	d. h. m.	d. h. m.	B.C. 65.		d. h. m.	d. h. m.
c.	JAN	15 3 2	14 20 15	G.F.	JAN	12 18 12	13 2 43
March.	FEB	13 15 46	13 10 28	March. $d$ . $h$ . $m$ .	FEB	11 6 56	11 12 58
d. h. m. 23 16 9	MAR.	15 4 30	<b>15 1 3</b> 9	23 9 35	MAR	11 19 40	11 21 43
20 10 0	APRIL	13 17 14	13 17 24		APRIL	10 8 24	10 5 50
	MAY.	13 5 58	13 9 7		MAY.	9 21 8	914 7
	JUNE .	11 18 42	12 0 5		June .	8 9 52	7 28 34
	JULY.	11 7 26	11 13 48		JULY.	7 22 36	711 7
	Aug	9 20 10	10 2 10		Aug	<b>6 11</b> 20	6 1 13
	SEPT	8 8 54	8 13 29		SEPT	5 0 4	4 17 42
	Oct.	7 21 38	8 0 16		Oct	<b>4 12 4</b> 8	4 11 47
1	Nov.	6 10 22	<b>6 1</b> 0 59		Nov.	<b>3 1 3</b> 2	3 6 11
	DEC	5 23 6	5 21 47		DEC	2 14 16	2 23 35
67.	Jan	(41151	4 8 45			(1 3 0	1 14 57
B.	JAN	19 6 13	19 17 11	64.	JAN	30 15 44	31 3 48
	FEB	3 0 35	2 20 0	E.	FEB		
23 21 58	MAR.	4 13 19	4 7 44		1.110.	(1 4 29	1 14 12
20 21 30	APRIL	3 2 3	2 20 21	23 15 24	MAR	30 17 13	30 22 39
ļ	MAY.	2 14 47	2 10 6		APRIL	29 5 57	29 5 55
		(1 8 81	1 0 55		0	(14 0 19	14 6 30
	JUNE.	30 16 15	30 16 22		MAY.	28 18 41	28 12 59
	0	(15 10 37	15 4 8		June .	27 7 25	26 20 58
	JULY.	30 4 59	30 7 47		JULY.	26 20 9	26 6 58
	Aug	28 17 43	28 22 35		Aug	25 8 53	24 19 45
	SEPT	27 6 27	27 12 27		SEPT	23 21 37	23 11 32
	Ост	26 19 11	27 1 20		Oct	23 10 21	2 <b>3</b> 5 45
	Nov	25 7 55	25 13 20		0	7 4 48	7 2 33
	DEC	24 20 39	25 0 29		Nov.	21 23 5	22 1 10
	1				DEC	21 11 49	21 20 7
1	0	8 15 2	8 17 25				
66.	JAN	23 9 24	23 10 53	63.	JAN	20 0 33	20 18 4
<b>A.</b>	FEB	21 22 8	<b>21 20 4</b> 0	D.	FEB	18 13 17	19 8 10
24 3 47	MAR.	23 10 52	23 6 18	23 21 13	MAR	20 2 1	20 14 17
	APRIL	21 23 36	21 16 30		APRIL	18 14 45	18 22 57
	MAY.	21 12 20	21 3 59		0	∫ 3 9 7	8 7 6
	JUNE.	20 1 4	19 17 18		MAY .	18 8 29	18 <b>6 4</b>
	-0	<b>∫</b> 4 19 26	4 21 18		June.	16 16 13	16 <b>12 41</b>
	JULY.	19 13 48	19 8 24		JULY.	16 4 57	15 19 56
	Aug.	18 2 32	18 0 48		Aug	14 17 41	14 4 54
	SEPT.	16 15 16	16 17 39		SEPT	13 6 25	12 16 26
	Oct	16 4 0	16 10 3		Ост	$\begin{cases} 12 \ 19 \ 9 \end{cases}$	12 7 2
	Nov.	14 16 44	15 1 17		_ 0	(27 13 31	27 17 57
	DEC.	14 5 28	14 14 53		Nov.	11 7 53	11 0 26
		128 23 50	28 17 43		DEC	10 20 87	10 19 89
·1	<u> </u>	1	<u> </u>	l			•

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
B.C. 62. c.	JAN	d. h. m. 9 9 22	d. h. m. 9 15 4	B.C. 59.	Jan	d. h. m.	d. h. m. 5 17 52
March.	FEB.	7 22 6	8 9 2	F.	FEB	( 4 13 16	4 7 15
d. h. m. 24 8 1	MAR.	9 10 50	10 0 24	March.	0	19 7 38	19 20 41
24 0 1	APRIL	7 23 34	8 12 41	d. h. m. 23 20 28	MAR	6 2 0	5 21 40
	O	22 17 56	22 11 0	20 20 20	APRIL	4 14 44	4 12 56
	MAY.	7 12 18	7 22 15		MAY.	4 3 28	4 4 35
	June.	6 1 2	6 5 55		JUNE .	2 16 12	2 19 59
	_	5 13 46	5 12 50		JUME.	(2 4 56	2 10 29
	JULY.	4 2 30	3 20 6		JULY.	81 17 40	31 23 44
l	Aug				_	(15 12 2	14 22 19
	SEPT	2 15 14			0	30 6 24	30 11 49
	0	2 3 58			Aug		28 23 5
	Oct. O	16 22 20	17 5 7 31 4 38		SEPT	28 19 8	28 9 59
	~~	(81 16 42			Ocr	26 20 36	26 20 50
	Nov	30 5 26	29 20 81		Nov.	1	26 7 41
	DEC	29 18 10	29 14 22		DEC	26 9 20	20 7 41
	}			E0.	JAN	24 22 5	24 18 36
61.	JAN	28 6 55	28 9 4	58. E.		( 8 16 27	9 5 15
B.A.	FEB	26 19 89	27 8 9		FEB.	23 10 49	28 5 47
28 8 50	MAR.	27 8 28	27 19 28	24 2 17	MAR.	24 23 38	24 17 37
	APRIL	25 21 7	26 9 2	24 21	APRIL	23 12 17	23 6 30
	MAY .	25 9 51	25 20 8		MAY.	28 1 1	22 20 40
	JUNE .	28 22 85	24 5 4		June .	21 18 45	21 11 49
	JULY.	28 11 19	23 13 2		JULY.	21 2 29	21 3 26
	Aug	22 0 8	21 21 0		1	( 4 20 51	1
	SEPT	20 12 47	20 5 49		A 770	19 15 18	1
	Ocr	20 1 81	19 16 8		Aug.	18 8 57	18 9 32
	Nov	18 14 15	18 4 16		SEPT.	17 16 41	17 28 12
	DEC	18 2 59	17 18 22		Ocr	16 5 25	16 11 50
					Nov.		15 28 28
60	JAN.	16 15 48	16 10 7		DEC	15 18 9	10 20 20
G.	FEB.	15 4 27	15 2 59	57.	JAN.	14 6 58	14 10 10
	0	1 22 49	2 5 59	D.C.	FEB.	12 19 87	12 20 2
28 14 89	MAR	16 17 11	16 20 7	28 8 6	MAR.	18 8 21	
	APRIL	15 5 55	15 12 30	== 0 0	APRIL	11 21 5	b
	MAY.	14 18 89	15 8 18		MAY.	11 9 49	i
	June .	18 7 28	18 16 8	1	June .	9 22 88	1
	JULY.	12 20 7	18 8 6		JULY.	9 11 17	1
	Aug.	(11 8 51	11 12 50		Aug.		1
	0	26 8 18	25 15 50	11	SEPT.	1	
	SEPT.	9 21 85	9 22 10			6 1 29	1
1	Oct.	9 10 19	9 7 47		Oct.	4 14 18	1
	Nov.	7 28 8	7 18 11		Nov.	(4 2 57	
	DEC.	7 11 47	7 5 80		DEC.	18 21 19	
1	، معمد		. 550	11	1	10 21 18	10 10 21

March. d. h. m. 1 23 13 54	Jan Feb Mar.	d. h. m. 2 15 42	d. h. m.	B.C.			
March. d. h. m. 23 13 54	Fев	2 15 42		53.		d. h. m.	d. h. m.
March. d. h. m. 1 23 13 54	Fев		<b>3</b> 1 23	F.E.	JAN	29 19 36	30 4 11
23 13 54		1 4 26	1 12 16	March.	FEB	28 8 20	28 20 51
		2 17 10	2 21 32	d. h. m. 23 7 21	MAR	28 21 4	29 10 36
1		(1 5 54	1 5 43		0	(12 15 26	12 8 44
	APRIL	30 18 38	30 13 36		APRIL	27 9 48	27 21 25
7	MAY.	30 7 22	29 22 12		MAY .	26 22 32	27 5 54
	0	(14 1 44	14 10 44		June .	25 11 16	25 13 9
:	JUNE .	\28 20 6	28 8 32		JULY.	25 0 0	24 20 14
1 1 .	JULY.	28 8 50	27 21 18		Aug.	23 12 44	23 4 10
i -	Aug	26 21 34	26 12 46		SEPT	22 1 28	21 18 51
1 l	SEPT.	25 10 18	25 6 21		0	( <b>6 1</b> 9 50	7 1 42
! !	Oct	24 23 2	25 0 56		Oct.	21 14 12	21 1 52
i i	Nov.	23 11 46	23 19 12		Nov.	20 2 56	19 16 28
	0	(868	7 22 5		DEC.	19 15 40	19 9 20
1	DEC	23 0 30	23 11 46			20 20 20	
				52.	JAN	18 4 24	18 8 36
<b>55.</b> 3	JAN	21.13 15	22 1 55	D.	FEB	16 17 8	16 21 57
A. ]	Feb	20 1 59	20 13 24	23 13 10	MAR	18 5 52	18 15 6
23 19 43 1	MAR	21 14 43	21 22 36		0	[ 2 0 14	1 21 34
1 1	APRIL	20 3 27	20 6 12		APRIL	(16 18 36	17 6 1
]	MAY .	19 16 11	19 13 7		MAY .	<b>16</b> 7 20	16 18 19
	0	( 3 10 33	3 17 2		JUNE .	14 20 4	15 4 21
;	JUNE .	18 4 55	17 20 27		July.	14 8 48	14 12 52
] ;	July .	17 17 39	17 5 19		Aug	12 21 32	12 20 58
.	Aug	16 6 23	<b>15 16</b> 40		SEPT	[11 10 16]	11 5 28
	SEPT	14 19 7	14 7 2		0	126 4 38	26 8 56
1 1	Ост	14 7 51	14 0 16		Oct	10 28 0	10 15 8
] [:	Nov	∫12 20 35	12 19 23		Nov	9 11 44	9 2 18
1	0	<b>\27 14 57</b>	27 12 26		DEC	9 0 28	8 15 28
	Dec	12 9 19	12 14 50	51.	JAN	7 18 18	7 6 11
	_			C.	FEB	6 1 57	5 22 19
1 ~ 1.	JAN	10 22 3	11 8 57	23 18 59	Mar.	7 14 41	7 15 11
	FEB	9 10 47	10 0 29		0	22 9 3	22 14 11
1 1	MAR	10 23 31	11 13 0		APRIL	6 8 25	6 7 51
1 1	APRIL	9 12 15	9 22 42	'	MAY.	5 16 9	5 28 27
1 1	MAY .	9 0 59	9 6 22	1	JUNE.	4 4 58	4 13 21
1	June.	7 13 43	7 13 5		JULY.	3 17 37	4 1 21
1 1	JULY.	7 2 27	6 19 55		A	ſ 2 6 21	2 11 50
1 1	Αυσ	5 15 11	5 3 58		Aug	81 19 5	81 21 81
1 1	SEPT.	4 3 55	3 14 13		0	(15 18 27	15 8 42
1 1	Oct.	3 16 39	3 3 21		SEPT	30 7 49	80 7 9
	Nov	2 5 23	1 19 28		Oct	29 20 33	29 17 17
	DEC	1 18 7	1 13 55		Nov	28 9 17	28 4 10
		\\31 6 51	81 9 22		DEC	27 22 1	27 15 55

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (○ Full Ecl.)	True New Moon.
B.C. 50.		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
B. Warah	JAN	26 10 46	26 4 34	47.	0	5 8 7 34	8 1 48
d. h. m.	FEB	24 23 30	24 18 11	March.	JAN	23 1 56	23 11 22
24 0 47	MAR	26 12 14	26 8 45	d. h. m.	FEB	21 14 40	21 21 15
	APRIL	25 0 58	25 0 5	23 18 14	MAR	23 3 24	23 5 42
	MAY .	24 13 42	24 15 36		APRIL	21 16 8	21 13 25
	June .	23 2 26	23 6 39		MAY .	21 4 52	20 21 23
	July.	22 15 10	22 20 44		June.	19 17 36	19 6 37
	Aug	21 3 54	21 9 40		0	∫ 4 11 58	<b>4 1</b> 9 19
	SEPT	19 16 38	19 21 35		JULY.	19 6 20	18 18 4
	Oct	19 5 22	19 8 52		Aug	17 19 4	17 8 16
	Nov	17 18 6	17 19 53		SEPT	16 7 48	16 1 0
	DEC	17 6 50	17 6 45		Ост	15 20 32	<b>15 1</b> 9 28
					Nov	14 9 16	14 14 14
49.	JAN	(15 19 34	15 17 30		DEC	13 22 0	14 7 54
A.G.	0	30 13 56	31 1 1		T	10 10 44	10 00 01
	FEB	14 8 18	14 4 15	46.	JAN	12 10 44 10 23 28	12 23 21 11 12 5
<b>23 6 3</b> 6	MAR.	14 21 2	14 15 24	D,	FEB		
20 0 00	APRIL	13 9 46	13 3 27	24 0 3	MAR.	12 12 12	12 22 15
	MAY.	12 22 30	12 16 45		APRIL	11 0 56	11 6 24
	June .	11 11 14	11 7 23		MAY .	10 13 40	10 13 25
	JULY.	(10 23 58	10 22 54		JUNE .	9 2 24	8 20 20
	0	25 18 20	25 11 45		JULY.	8 15 8	8 4 17
	Aug.	9 12 42	9 14 42		Aug.	7 3 52	6 14 19
	SEPT.	8 1 26	8 6 4		SEPT	5 16 36	5 3 13
	Oct.	7 14 10	7 20 34		Oct	5 5 20	4 19 11
	Nov.	6 2 54	6 9 57		Nov.	3 18 4	
	DEC.	5 15 38	5 22 12		1,0	118 12 26	1
	DEC.	3 10 00	0 22 22		DEC	3 6 48	3 9 9
40	-	. 4 4 00	4 9 21		7	ſ 1 19 38	2 4 8
48. r.	JAN	4 4 28	19 1 10	45.	JAN.	\langle 31 8 17	31 21 4
	0	18 22 45	2 19 28	С.В.	FEB	29 21 1	
00 10 05	FEB.	2 17 7	4 4 49				∫ 1 11 2
23 12 25	MAR.	4 5 51	2 13 57	23 5 52	MAR.	80 9 45	130 21 59
	APRIL	2 18 35			APRIL	28 22 29	29 6 29
	MAY .	$\begin{cases} 2 & 7 & 19 \\ 21 & 20 & 9 \end{cases}$	1		0	∫13 16 51	13 13 39
	-	181 20 8			MAY .	. \\28 <b>1</b> 1 18	3 28 13 31
	JUNE.	80 8 47	29 28 55		JUNE .	26 23 57	26 20 10
	_ 0	15 8 9	1		JULY .	26 12 41	. 26 3 33
	JULY .	129 21 31			Aug.	25 1 25	24 12 41
	Aug	28 10 15	28 7 50		SEPT.	28 14 8	23 0 23
	SEPT.	26 22 59	27 1 11		Ocr.	. 23 2 58	3 22 15 6
	Oct.	26 11 43			0	6 21 1	7 2 42
	Nov.		1		Nov.	.  {21 15 8	7 21 8 30
	DEC.	24 13 11	24 23 35		DEC.	. 21 4 21	21 8 85
		1		11	!		

Mean   Keyminox.   Month   Month   Month   Month   CFull Ecl.)   CFull Ecl.)   CFull Ecl.)   CFull Ecl.   C	<del></del>		·	i	1	<u> </u>	i	}
B.C. 44.  A. JAN. 19 17 5 19 22 48  March. d. h. m.  8 18 14 00  AFRIL 18 7 18 18 19 59  AFRIL 17 20 2 18 5 50  JUNE 16 846 16 18 19  JULY 15 21 30 15 20 27  AUG. 14 10 14 14 18 59  Sept. 12 22 58 12 12 51  OCT. (12 11 42 11 23 45  OCT. (12 11 42 11 23 45  DEC. 10 18 10 10 4 48  43. JAN. 9 1 54 8 22 20  G. Feb. 7 14 88 7 16 86  28 17 29  APRIL 7 16 6 8 2 21  MAY. 7 4 50 7 15 57  JUNE 5 6 18 5 12 24  AUG. 8 19 2 9 2 18 8  APRIL 7 16 6 8 2 21  MAY. 7 4 50 7 15 57  JULY 5 6 18 5 12 24  AUG. 8 19 2 2 8 20  AUG. 8 19 2 8 20  APRIL 7 16 6 8 2 21  MAY. 7 4 50 7 15 57  JULY 5 6 18 5 12 24  AUG. 8 19 2 8 20  APRIL 7 16 6 8 2 21  MAY. 7 4 50 7 15 57  JULY 7 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Vernal	Month.	Moon.	Moon.	Vernal	Month.	Moon.	Moon.
## 44.    A	Equinox.		(O Full Ect.)	(O Fun Eci.)	Equinox.		(O 1 dii 15(1.)	C Fun Eci.
March. d. h. m. 28 11 40  Mar. 19 18 34  Mar. 19 18 34  Mar. 19 18 34  Mar. 19 18 34  Mar. 19 18 34  Mar. 19 18 34  Mar. 19 18 34  Mar. 16 9 44 16 5 1  Mar. 16 9 44 16 5 1  Mar. 17 20 2 18 5 82  June 16 8 46  June 15 21 0 15 18 2 22  June 16 8 46  June 15 21 8 5 82  June 16 8 46  June 16 8 46  June 17 20 2 18 5 82  June 19 25 88  Sept. 12 25 88  Nov. 14 10 14  Mar. 14 12 12 14 11 5  June 12 28 56 18 2 28  Mar. 14 11 12 14 11 15  June 12 28 56 18 2 28  Mar. 14 11 12 14 11 15  June 12 28 56 18 2 28  Mar. 14 11 12 14 11 15  June 17 16 6 8  Mar. 19 18 2 9 10 19  April Mar. 7 4 50  June 17 16 6 8 2 21  Mar. 8 19 2 8 20 44  Sept. 2 7 46 2 5 6  Oct. 8 19 14 8 10 50  Nov. 29 21 58 29 12 59  Dec. 29 10 42  Pr. Feb. 26 12 11  Mar. 4 50 7 15 57  June 27 28 26  Nov. 29 21 58 29 12 59  Dec. 29 10 42  Pr. Feb. 26 12 11  Mar. 4 20 8 3 8  April 4 2 2 8 14 12  Aug. 17 10 26  Mar. 4 50 7 15 57  June 27 28 26  Nov. 29 21 58  Mar. 4 50 7 15 57  June 27 28 26  Nov. 29 21 58  Mar. 4 50 7 15 57  June 27 28 26  Nov. 29 21 58  June 24 15 7 24 23  OJunr 24 8 51  Sept. 12 12 13 14  Mar. 14 12 12 14 11 15  June 24 15 7 24 23  Nov. 15 17 4 5 16 88  April 4 7 16 4 0 57  Mar. 5 18 32  June 24 15 7 24 23  Og. 13 14 14 18  April 4 7 16 4 0 57  Mar. 5 18 32  June 24 15 7 24 23  Og. 18 8 8  April 26 22 28 89 58  June 24 15 7 24 23  Og. Junr 24 8 51  Nov. 29 21 58  June 24 15 7 24 23  Og. Junr 24 8 51  Nov. 26 18 8 22 20  Mar. 21 14 97  Mar. 4 50 7 15 57  June 27 28 26  Zor 18 5  Feb. 28 32 14 14  Aug. 14 19 45  Cor 29 10 42  Pr. Feb. 28 58  Mar. 14 19 45  Mar. 14 11 12 14 11 15  June 12 28 10 15  Og. 12 10 12 11 12 14 11  April 42 22 28 44  Aug. 11 1 24 41 16 5 19  Og. 25 19 46 25 5 58  Sept. 9 14 8 9 19 40  Oct. 9 15 18 18  April 4 7 16 6 8 8 2 21  Mar. 14 11 12 14 11 15  June 12 24 16 5 1  Og. 12 10 10 10 19 12 56  Mar. 14 10 14  Arril 4 2 22 8 16  Nov. 29 21 58  June 17 16 6 8 2 21  Mar. 14 11 12 14 11 15  June 17 16 16 18  Og. 17 17 18  Aug. 17 18  Aug. 17 18  Aug. 17 18  Aug. 17 18  Aug. 17 18  Aug. 17 18  Aug. 17 18  Aug. 17 18  Aug. 17 18			d. h. m.	d. h. m.	41.		d. h. m.	d. h. m.
A		JAN	19 17 5	19 22 48		JAN	17 8 16	17 2 23
28 11 40		FEB	18 5 50	18 16 36		<b>F</b> EB	15 21 0	15 15 13
O		MAR	19 18 34	20 7 47		0	∫ 1 15 22	2 4 41
MAY .   17 20 2   18 5 82   June .   16 8 46   16 18 19   July .   15 21 30   15 20 27   Aug .   14 10 14   14 8 59   Sept .   12 22 56   12 12 51   Oct .   12 11 42   11 23 45   Oct .   12 11 42   11 23 45   Oct .   10 18 10   10 4 48   Oct .   10 18 10   10 4 48   Oct .   10 18 10   Oct .   10 18 10   Oct .   10 18 10   Oct .   10 18 10   Oct .   10 18 10   Oct .   10 18 10   Oct .   O		APRIL	18 7 18	18 19 59	23 5 7	MAR	16 9 44	16 5 1
JUNE. 16 8 46 16 18 19 JULY. 15 21 30 15 20 27 AUG 14 10 14 14 8 59 SEPT 12 22 58 12 12 51 OCT (12 11 42 11 28 45 DEC 10 18 10 10 4 48  43.		0	∫ 3 1 40	2 18 1		APRIL	14 22 28	14 19 45
JULY . 15 21 30 15 20 27 Aug 14 10 14 14 8 59 Sept 12 22 58 12 12 51 Oct		MAY .	17 20 2	18 5 32		MAY.	14 11 12	14 11 5
Aug. 14 10 14 14 8 59 Sept. 12 22 58 12 12 51 Oct. 12 11 42 11 22 45 58 Oct. 12 11 42 11 22 45 64 11 22 45 64 11 22 51 64 11 22 45 64 11 22 66 12 68 22 11 25 64 12 68 1		June .	16 8 46	16 13 19		June.	12 23 56	13 2 28
SEPT. 12 22 58 12 12 51 OCT. 12 11 42 11 23 45 OCT. 27 6 4 27 18 28 NOV. 11 0 26 10 18 5 DEC. 10 18 10 10 4 48  43. JAN. 9 1 54 8 22 20 G. FEB. 7 14 88 7 16 86 23 17 29 MAR. 9 8 22 9 10 19 APRIL 7 16 6 8 2 21 MAY 7 4 50 7 15 57 JULY 5 6 18 5 12 24 AUG. 8 19 2 8 20 44 SEPT. 2 7 46 2 5 6 OCT. 12 10 28 0 51 14 18 AUG. 8 19 2 8 20 44 SEPT. 2 7 46 2 5 6 OCT. 12 10 28 0 1 14 18 AUG. 8 19 2 8 20 44 SEPT. 2 7 46 2 5 6 OCT. 2 12 10 30 1 14 18 AUG. 13 9 14 10 50 NOV. 29 21 58 29 12 59 DEC. 29 10 42 29 2 48  42. FEB. 26 12 11 OCT. 21 8 68 8 22 12 MAY 26 2 23 66 95 8 APRIL 26 18 89 26 19 10 MAY 26 2 23 26 9 58 JUNE 24 15 7 24 20 20 JULY 24 8 51 JULY 28 11 40 28 17 24 OCT. 28 0 24 18 5 FEB. 26 12 11 OCT. 26 18 89 26 19 10 MAY 26 2 23 26 9 58 JUNE 24 15 7 24 10 28 AUG. 22 16 85 22 20 88 OCT. 20 18 8 20 16 29 NOV. 19 6 47 19 3 5 DEC. 18 19 81 18 14 22		JULY.	15 21 30	15 20 27		July.	12 12 40	12 17 13
Oct {12 11 42 11 23 45	1 1	Aug	14 10 14	14 8 59		Aug	∫11 1 24	11 6 59
O		SEPT	12 22 58	12 12 51		0	25 19 46	<b>25</b> 5 58
Nov 11 0 26 10 13 5 Dec 10 13 10 10 4 48  43.	1	Ост	∫12 11 42	11 23 45		SEPT	9 14 8	9 19 40
## Add.   Jan.   9   1   54   8   22   20   ## G.   Feb.   7   14   88   7   16   36   ## 23   17   29   Mar.   9   3   22   9   10   19   ## April   7   16   6   8   2   21   ## May   7   4   50   7   15   57   ## June   5   17   34   6   8   7   ## June   5   17   34   6   8   7   ## June   5   17   34   6   8   7   ## June   5   17   34   6   8   7   ## June   5   17   34   6   8   7   ## June   5   17   34   6   8   7   ## June   5   17   34   6   8   7   ## June   5   17   34   6   8   7   ## June   5   17   34   6   8   7   ## June   5   17   34   6   8   7   ## June   5   17   34   6   8   7   ## June   5   18   32   5   18   42   ## June   2   2   4   8   5   ## June   2   2   2   4   ## June   2   2   2   4   ## June   2   2   2   2   8   ## June   2   2   2   3   8   ## June   2   2   2   3   8   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   4   5   7   ## June   2   5   6   ## June   2   5   6   ## June   2   6   7   ## June   2   6   7   ## June   2   6   7   ## June   2   6   7   ## June   2   6   7   ## June   2   6   7   ## June   2   6   7   ## June   2   6   7   ## June   3   7   ## June   2   6   8   ## June   2   6   7   ## June   2   6   8   ## June   2   6   7   ## June   2   6   8   ## June   2   7   ## June   2   8   4   2   ## June   2   8   4   2   ## June   2   8   4   2   ## June   3   6   8   ## June   3   6   8   ## June   3   6   8   ## June   4   7   6   6   ## June   5   7   4   5   6   ## June   7   6   7   ## June   7   6   7   5   49   ## June   7   6   7   6   7   ## June   7   6   7   ## June   7   6   7   ## June   7   6   7   ## June   7   6   7		0	27 6 4	27 13 23		Ост	9 2 52	9 7 30
43. Jan 9 1 54 8 22 20 6. Feb 7 14 88 7 16 86 23 17 29 Mar 9 3 22 9 10 19 April 7 16 6 8 2 21 May . 7 4 50 7 15 57 June . 5 17 34 6 8 3 7 July . 5 6 18 5 12 24 Aug 8 19 2 3 20 44 Sept 2 7 46 2 5 6 Oct 120 30 1 14 18 Oct 29 21 58 29 12 59 Dec 29 10 42 29 2 48  42. Feb 26 12 11 26 10 28 Dec 29 10 42 29 2 48  42. Feb 26 12 11 26 10 28 April May . 26 2 23 26 9 58 June . 24 15 7 24 28 0 July . 24 3 51 Aug 22 16 85 22 20 38 Oglic and a control of the c		Nov	11 0 26	10 13 5		Nov	7 15 36	<b>7 18 4</b> 9
43.	4	DEC	10 13 10	10 4 48		DEC	7 4 20	7 5 49
43.	1				40	_		
G. Feb 7 14 88	43.	JAN	9 1 54	8 22 20				
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MAY   1 4 50   7 15 57   June   5 17 34   6 3 7   July   5 6 18   5 12 24   Aug.   3 19 2   3 20 44   Sept.   2 7 46   2 5 6 6   Nov.   29 21 58   29 12 59   Dec.   29 10 42   29 2 48   Nov.   22 16 35   22 10 May   24 15 7   24 23 0   July   24 3 51   24 10 23   Aug.   22 16 35   Dec.   20 18   3 20 16 29   Nov.   19 6 47   19 3 5   Dec.   3 19 31   18 14 29   Nov.   15 21 57   16 6 20   Dec.   3 19 31   18 14 29   Nov.   15 21 57   16 6 20   Dec.   3 19 31   18 14 29   Nov.   15 21 57   16 6 20   Dec.   3 19 31   18 14 29   Nov.   15 21 57   16 6 20   Dec.   3 15 10 41   15 21 15			7 16 6	8 2 21	23 10 56		5 18 32	5 18 42
July . 5 6 18 5 12 24  Aug 3 19 2 3 20 44  Sept 2 7 46 2 5 6  Oct \begin{array}{c ccccccccccccccccccccccccccccccccccc		MAY .	7 4 50	7 15 57				
Aug 3 19 2 3 20 44 Sept 2 7 46 2 5 6 Oct	1	JUNE .	5 17 34	6 3 7		MAY.	1	
SEPT. 2 7 46 2 5 6 8 OCT. 29 21 58 29 12 59 DEC. 29 10 42 29 2 48  42. JAN. 27 28 26 27 18 5 FEB. 26 12 11 26 10 28 APRIL 26 18 39 26 19 10 MAY 26 2 28 36 30 26 19 10 MAY 26 2 28 36 30 30 30 30 30 30 30 30 30 30 30 30 30	1	JULY .	5 6 18	5 12 24		JUNE.		
SEPT. 2 7 46 2 5 6		Aug	3 19 2	3 20 44		July	14	
Oct.   31 9 14   31 0 50   Nov.   29 21 58   29 12 59   Dec.   29 10 42   29 2 48   Nov.   29 10 42   29 2 48   Nov.   26 13 8   26 20 37   Dec.   26 12 11   26 10 28   Sandara		SEPT	2 7 46	2 5 6		0022.		
Nov.   29 21 58   29 12 59     Dec.   29 10 42   29 2 48     42.   Jan.   27 28 26   27 18 5     F.   Feb.   26 12 11   26 10 28     28 23 18   April   26 18 39   26 19 10     May   26 2 23   26 9 58     June   24 15 7   24 23 0     July   24 3 51   24 10 23     Aug.   22 16 35   22 20 38     O		Ост	1 20 30	1 14 18			1	
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42. Jan 27 23 26 27 18 5 Feb 26 12 11 26 10 28 O Mar 28 0 55 28 3 3 April 26 13 39 26 19 10 May . 26 2 23 26 9 58 June . 24 15 7 24 23 0 July . 24 3 51 24 10 23 Aug 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 16 35 22 20 38 O May . 22 17 32 22 829 June . 21 6 17 20 20 27 July . 20 19 1 20 10 38 Aug 19 7 45 19 2 48 Sept 17 20 29 17 20 11 Oct 17 9 18 17 18 44 Nov 15 21 57 16 6 20 Dec 18 19 31 18 14 29		Nov	29 21 58	29 12 59		_		-
42.		DEC	29 10 42	29 2 48		1		
## 1.								
F.   Feb.   26 12 11   26 10 23   39.   39.   28 23 18   MAR.   26 13 39   26 19 10   28   4 22   28 24 16 5   24 18 16   28   4 22   28 26   28 3   28 3 20   29   30   30   30   30   30   30   30   3	42.	JAN	27 23 26	27 18 5		DEC	26 1 52	26 8 21
28 23 18   O	F.	FEB	26 12 11	26 10 23	30	T	04 14 97	04 10 59
APRIL 26 13 39 26 19 10  MAY . 26 2 23 26 9 58  JUNE . 24 15 7 24 23 0  JULY . 24 3 51 24 10 23  AUG 22 16 35 22 20 38  O	00.00.00		∫13 6 33	13 14 5		ł	1	
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MAY . 26 2 28 26 9 58  June . 24 15 7 24 23 0  July . 24 3 51 24 10 23  Aug 22 16 35 22 20 38  O		APRIL	26 13 39	26 19 10	-0 10 40			
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JULY . 24 8 51 24 10 23  Aug 22 16 35 22 20 38  O		1 _	1	24 23 0		_	1	
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C   6 10 57   5 23 11		Aug	1 .	22 20 38				
Ocr.     20     18     8     20     16     29       Nov.     19     6     47     19     3     5       Dec.     18     19     31     18     14     29	1.	1 .	13	5 23 11				
Nov 19 6 47 19 3 5 DEC 18 19 31 18 14 22 Nov 15 21 57 16 6 20	1			21 6 28				
DEC. 18 19 31 18 14 29 DEC. \[ \begin{pmatrix} 15 & 10 & 41 & 15 & 21 & 15 \\ \end{pmatrix}			1	20 16 29				
1 DEC. 1 18 19 31   18 14 22			1	19 3 5			!	
		DEC.	18 19 31	18 14 22			13	
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Mean Vernal	Month.	Mean New	True New	Mean		Mean New	True New
Equinox.	Motion.	(O Full Ecl.)	Moon. (O Full Ecl.)	Vernal Equinox.	Month.	Moon. (O Full Ecl.)	(O Full Ecl.)
B.C. 38.		d. h. m.	d. h. m.	B.C. 35.		d. h. m.	d. h. m.
March.	JAN	13 23 25	14 10 2	March.	JAN	10 14 35	10 17 11
d. h. m.	FEB	12 12 9	12 20 43	d. h. m.	FEB	9 3 19	9 11 44
23 22 33	MAR	14. 0 53	14 5 39	23 16 0	MAR	10 16 3	11 4 14
	APRIL	12 13 37	12 13 25		APRIL	5 9 4 47	9 17 51
	MAY .	12 2 21	11 20 59		0	l 23 23 9	23 15 56
	June .	ſ10 15 5	10 5 20		MAY .	8 17 31	9 4 37
	0	125 9 27	25 17 45		June.	7 6 15	7 13 13
	July.	10 3 49	9 15 32		July.	6 18 59	6 20 38
	Aug	8 16 33	8 4 21		Aug	5 7 43	.5 3 59
	SEPT	7 5 17	6 19 59		SEPT	3 20 27	3 12 15
	Ocr	6 18 1	6 13 53		Ocr	3 9 11	2 22 11
	Nov	5 6 45	5 8 50		0	l 18 8 33	18 9 43
	DEC	∫ 4 19 29	5 3 22		Nov	1 21 55	1 10 21
	0	19 18 51	19 6 49		n	ſ 1 10 <b>3</b> 9	1 0 52
					DEC	₹30 23 23	30 17 27
37.	Jan	3 8 14	3 20 7	34.	Jan	29 12 8	29 11 17
G.F.	FEB.	1 20 58	2 10 12	c.	FEB.	28 0 52	28 5 14
23 4 22	MAR	∫ 2 9 42	2 21 30	23 21 49	MAR.	29 13 36	29 22 5
	IMARIE .	\31 22 26	f 1 6 25		0	(13 7 58	13 5 14
	APRIL	30 11 10	(30 13 47		APRIL	128 2 20	28 12 54
	MAY.	29 23 54	29 20 32		MAY .	27 15 4	28 1 17
	0	<b>∫13 18 16</b>	13 23 36		JUNE .	26 3 48	26 11 32
	June.	128 12 38	28 3 48		JULY.	25 16 32	25 20 24
	JULY.	28 1 22	27 12 42		Aug	24 5 16	24 4 52
	Aug	26 14 6	26 0 9		SEPT	22 18 0	22 13 46
	SEPT	25 2 50	24 14 42		0	7 12 22	7 11 31
	Oct	21 15 34	24 8 5		Oct	122 6 44	21 23 44
1	Nov	23 4 18	23 3 19		Nov	20 19 28	20 11 6
	. 0	<b>∫</b> .7 22 40	7 21 23		DEC	20 8 12	20 0 0
	DEC	122 17 2	22 22 49	33.	JAN	18 20 57	18 14 22
				B.A.	FEB.	17 9 41	17 5 58
36.	JAN	`21 5 47	21 16 52	23 3 38	MAR.	17 22 25	17 22 16
E.	FEB	19 18 31	20 8 20	20 0 00		( 1 16 47	1 22 4
23 10 11	MAR	21, 7 15	21 20 41		O APRIL	16 11 9	16 14 34
	APRIL	19 19 59	20 6 14		MAY .	15 23 53	16 6 3
	MAY .	19 8 43	19 13 51	ł	JUNE.	14 12 37	14 20 3
	June .	17 21 27	17 20 33		JULY.	14 1 21	14 8 26
	July .	17 10 11	17 3 30		Aug.	12 14 5	12 19 24
·	Aug	15, 22 55	15 11 44		SEPT.	(11 2 49	11 5 38
	SEPT	14.11 39	13 22 10	,	0	25 21 11	25 11 13
	Oct	14, 0 23	13 11 27		Oct.	10 15 83	10 15 44
	Nov	12 13 7	12 8 35	1	Nov.	9 4 17	9 2 11
	DEC	12. 1 51	11 21 56		DEC.	8 17 1	8 13 7
		1				,	l .

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
B.C. 32. G. March. d. h. m. 28 9 26	Jan Feb Mar April May . June . July .	d. h. m. 7 5 45 5 18 29 7 7 13 5 19 57 5 8 41 3 21 25 3 10 9 { 1 22 53	d. h. m. 7 0 37 5 12 47 7 1 46 5 15 46 5 6 39 3 22 1 3 13 14 2 3 44	B.C. 29. p.c. March. d. h. m. 28 2 58	Jan  O FEB Mar April May . June .	d. h. m.  { 4 20 55 19 15 17 3 9 39 3 22 23 2 11 7 { 1 28 51 31 12 35 30 1 19	d. h. m. 5 8 14 19 9 50 3 19 52 4 5 27 2 18 32 1 20 56 31 4 88 29 18 48
31. F.	Sept Oct Nov Dec  Jan O Feb	\(\)(31 \)11 \(37\) 30 \(0 \)21 \\ 29 \)13 \(5\) 28 \\ 1 \\ 49\) 27 \\ 14 \\ 33\) \(\) 26 \(3 \)18 \\ \{\} 9 \\ 21 \\ 40\) \(\)24 \\ 16 \(2\)2	31 17 14 30 5 46 29 17 33 28 4 49 27 15 40 26 2 9 10 8 43 24 12 25	28. <sub>B</sub> .	O JULY . AUG SEPT OCT Nov DEC  JAN FEB	14 19 41 29 14 3 28 2 47 26 15 31 26 4 15 24 16 59 24 5 43 22 18 28 21 7 12	15 2 88 29 1 9 27 15 28 26 8 28 26 8 18 24 22 17 24 16 9 23 7 88 21 20 14
28 15 15	MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC	26 4 46 24 17 30 24 6 14 22 18 58 22 7 42 5 6 2 4 20 20 26 19 9 10 18 21 54 17 10 38 16 28 22	25 22 59 24 10 29 28 28 24 22 18 52 22 5 38 5 19 92 20 21 45 19 18 42 19 4 47 17 18 38 17 7 5	28 8 42	MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV O DEC	22 19 56 21 8 40 20 21 24 19 10 8 18 22 52 17 11 36 16 0 20 15 13 4 {14 1 48 28 20 10 18 14 82	21 20 14 23 6 9 21 14 3 20 20 53 19 3 44 18 11 42 16 21 49 15 10 52 15 2 59 18 21 82 28 20 28 18 17 8
30. E. 23 21 4	JAN. O FEB. MAR. APRIL MAY JUNE . JULY . O AUG SEPT OCT NOV DEC	\[ \begin{array}{llllllllllllllllllllllllllllllllllll	15 18 10 30 8 49 14 3 57 15 12 50 13 21 30 13 6 47 11 17 37 11 6 38 26 12 28 9 21 57 8 15 2 8 8 52 7 2 19 6 18 19	27. A. 28 14 31	Jan Feb Mar April May . O June . July . Aug Sept Oct Nov O Dec	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12 12 6 11 4 55 12 18 44 11 5 81 10 18 57 24 20 12 8 20 57 8 8 48 6 11 16 4 20 87 4 8 81 2 28 18 18 11 29 2 16 87

					<del></del>		
Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon, O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.  > Full Ecl.)
		d. h. m.	d. h. m.	B.C.		d. h. m.	d. h. m.
B.C.		(1 12 5	1 11 30	23.	JAN	27 15 59	27 10 48
26.	JAN.	31 0 49	31 6 27	С.	FEB	26 4 43	25 23 4
March.	FEB.	١		March. $d. h. m.$	0	ſ12 23 5	13 12 30
d. h. m.		( <b>1</b> 13 33	2 0 0	23 13 46	MAR	27 17 27	27 12 15
23 20 19	IVIATE I	31 2 17	31 15 1		APRIL	26 6 11	26 2 27
	APRIL	29 15 1	30 3 8		MAY .	25 18 55	25 17 31
	0	14 9 23	14 0 58		June .	24 7 39	24 8 55
	MAY .	29 3 45	29 12 45		JULY.	23 20 23	24 0 1
	JUNE .	27 16 29	27 20 43		Aug	22 9 7	22 14 18
	JULY.	27 5 13	27 4 6		0	6 3 29	5 13 46
	Aug	25 17 57	25 11 58		SEPT	(20 21 51	21 3 36
	SEPT	24 6 41	23 21 9		Oct	20 10 35	20 16 0
	Oct	23 19 25	23 8 15		Nov	18.23 19	19 3 42
	0	7 13 47	7 21 42		DEC	18 12 3	18 14 47
	Nov	22 8 9	21 21 36				
1	DEC	21 20 53	21 13 5	22.	JAN	17 0 48	17 1 20
25.	JAN	20 9 38	20 6 13	В.	FEB	15 13 32	15 11 26
F.E.	FEB	18 22 22	19 0 2		0	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	2 20 28
23 2 8	MAR.	19 11 6	19 17 22	23 19 35	MAR	17 2 16	16 21 32
	APRIL	17 23 50	18 9 11		APRIL	15 15 0	15 8 12
i	MAY .	17 12 34	17 22 47		MAY .	15 3 44	14 20 8
	June .	16 <b>1</b> 18	16 10 9		June.	13 16 28	13 9 44 13 0 53
	JULY.	15 14 2	15 19 47		JULY.	13 5 12	13 0 53 11 17 5
	Aug	14 2 46	14 4 32		Aug	$\begin{bmatrix} 11 & 17 & 56 \\ 26 & 12 & 18 \end{bmatrix}$	26 3 39
	SEPT	12 15 30	12 13 22	ll .	SEPT.	10 6 40	10 9 31
	Oct	12 4 14	11 22 55		OCT.	9 19 24	10 1 23
	Nov	10 16 58	10 9 39		Nov.		8 16 8
	DEC	10 5 42	9 21 44		DEC.		8 5 36
24.	JAN	8 18 26	8 11 13	ll .	DE0	. 20 02	
D.	FEB	7 7 10	7 1 57	01	T	6 9 36	6 17 11
23 7 57	MAR	8 19 54	8 17 41	21.	JAN.		5 3 27
	0	23 14 16	23 22 2	23 1 24			5 12 32
	APRIL	7 8 38	7 9 50	20 1 21	APRIL		
	MAY .	6 21 22	7 1 42		MAY	1	1
	JUNE .	5 10 6	5 16 32		JUNE		1
	JULY.	4 22 50	5 5 52			(114 0	1
	Aug	3 11 34	3 17 44		JULY	. 31 2 44	1
	SEPT	2 0 18	2 4 32		Aug.	29 15 28	29 9 52
	0	16 18 40	1		SEPT.		28 3 41
	Oct	$\begin{bmatrix} 1 & 13 & 2 \\ 21 & 1 & 42 \end{bmatrix}$	l		Oct.	. 27 16 56	27 21 41
		(31 1 46			Nov.	. 26 5 40	26 14 42
	Nov.	29 14 30 29 3 14			DEC.	. 25 18 24	26 5 49
	DEC	29 3 14	20 20 12		1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
B.C. 20. F. March. d. h. m. 23 7 12	O JAN FEB MAR APRIL MAY . JUNE .	d. h. m. { 9 12 47 (24 7 9 22 19 58 24 8 37 22 21 21 22 10 5 20 22 49 { 5 17 11	d. h. m. 9 5 52 24 18 34 23 5 1 24 13 36 22 21 4 22 4 22 20 12 32 6 0 48	B.C. 17. C.B. March. d. h. m. 28 0 39	Jan Feb Mar April O May . June . July .	d. h. m. 21 22 19 20 11 3 20 23 47 19 12 31 { 4 6 53 19 1 15 17 13 59 17 2 43	d. h. m.  22 0 56 20 19 11 21 11 27 20 0 58 3 28 5 19 11 48 17 20 32 17 4 12
	JULY . AUG SEPT OCT Nov DEC	20 11 33 19 0 17 17 18 1 17 1 45 15 14 29 (15 8 18 29 21 35	19 22 41 18 11 34 17 3 23 16 21 33 15 16 48 15 11 32 29 15 33		Aug Sept Oct O Nov Dec	15 15 27 14 4 11 (13 16 55 28 11 17 12 5 39 11 18 23	15 11 58 13 20 80 13 6 42 28 17 51 11 18 57 11 9 20
19. E. 23 13 1	JAN Feb Mar April	13 15 58 12 4 42 13 17 26 12 6 10	14 4 20 12 18 21 14 5 27 12 14 8	16. A. 23 6 28	Jan Feb Mar April	10 7 8 8 19 52 10 8 36 8 21 20 23 15 42	10 1 34 8 18 54 10 12 23 9 4 55 23 12 49
	MAY . JUNE . O JULY . Aug	11 18 54 (10 7 38 (25 2 0 9 20 22 8 9 6	11 21 18 10 3 58 25 6 11 9 11 14 7 20 18		MAY . JUNE . JULY . AUG SEPT	8 10 4 6 22 48 6 11 32 5 0 16 3 13 0	8 19 38 7 8 10 6 18 45 5 4 8 8 12 58
	SEPT OCT Nov DEC	6 21 50 6 10 34 4 23 18 4 12 2 19 6 24	6 7 49 5 22 30 4 16 0 4 11 17 19 6 22	,	Oct O Nov DEC	3 1 44 17 20 6 1 14 28 ( 1 3 12 30 15 56	2 22 17 17 19 14 { 1 8 32 30 19 57 30 8 36
18. D. 23 18 50	JAN FEB MAR APRIL	8 0 46 1 13 30 3 2 14 1 14 58	3 6 44 2 0 43 3 16 1 2 4 13	15. g. 28 12 17	JAN FEB MAR	29 4 40 27 17 24 29 6 8 13 0 80	28 22 29 27 13 28 29 5 13 13 5 47
	MAY . JUNE . JULY .	1 3 42 30 16 26 29 5 10 28 17 54	1 13 40 30 21 14 29 4 8 28 11 9		APRIL MAY . JUNE . JULY . AUG	27 18 52 27 7 86 25 20 20 25 9 4 28 21 48	27 21 8 27 12 31 26 2 44 25 15 33 24 3 5
	Aug Sept Oct Nov Dec	27 6 38 25 19 22 25 8 6 28 20 50 28 9 34	26 19 37 25 6 17 24 19 40 23 11 46 28 5 56		SEPT O Oct Nov	22 10 32	22 13 52 6 18 54 22 0 25 20 11 7

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	Tiue New Moon. (O Full Ecl.)
B.C. 14. F. March. d. h. m. 23 18 5	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT	d. h. m.  18 13 29 17 2 13 18 14 57 17 3 41 16 16 25 15 5 9 14 17 53 13 6 37 11 19 21	d. h. m. 18 9 15 16 20 52 18 9 16 16 22 41 16 13 10 15 4 28 14 19 53 18 10 52 12 0 57	B.C. 11. B. March. d. h. m. 23 11 32	Jan  O FEB MAR APRIL MAY . JUNE . JULY .	d. h. m. {15 4 39 29 23 1 18 17 28 15 6 7 13 18 51 13 7 35 11 20 19 {11 9 8 26 3 25	d. h. m. 15 16 45 29 17 46 14 4 14 15 18 82 18 21 17 18 4 24 11 11 54 10 20 54 26 9 51
13. E.D.	Oct Nov Dec  Jan Feb	11 19 21 11 8 5 9 20 49 9 9 33 7 22 18 6 11 2	11 14 5 10 2 19 9 13 47 8 0 33 6 10 40	10	AUG SEPT OCT Nov DEC	9 21 47 8 10 31 7 28 15 6 11 59 6 0 43	9 8 22 7 22 50 7 16 3 6 11 4 6 6 23
22 28 54	MAR APRIL MAY . JUNE . JULY . AUG. O . SEPT OCT Nov DEC	21 5 24 6 28 46 5 12 30 5 1 14 3 18 58 3 2 42 1 15 26 16 9 48 81 4 10 29 16 54 29 5 38 27 18 22 27 7 6	21 16 16 6 20 27 5 6 28 4 17 28 3 6 2 2 20 25 1 12 16 16 3 25 81 4 55 29 21 26 29 13 5 28 3 20 27 15 54	10. a. 23 17 21	JAN FEB MAR APRIL MAY .  JUNE . JULY . AUG SEPT OCT NOV O	4 13 28 3 2 11 4 14 55 3 8 89 2 16 28 1 5 7 80 17 51 30 6 35 28 19 19 27 8 3 26 20 47 25 9 31 10 3 58 24 22 15	
12. c	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC	19 1 42 18 14 26 17 3 10	26 2 49 9 16 19 24 12 17 25 20 45 24 4 58 23 18 54 22 0 29 21 18 28 5 20 11 20 4 56 18 22 20 18 16 38 17 10 30 17 2 47	9. G.F. 22 23 10	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OOT Nov O DEC	28 10 59 21 23 44 22 12 28 21 1 12 20 13 56 { 4 8 18 19 2 40 18 15 24 17 4 8 15 16 52 15 5 36 { 13 18 20 28 12 42 13 7 4	23 2 15 21 12 56 20 21 19 3 4 2 42 1 19 4 23 18 11 18 16 19 7 15 4 42 14 16 47 1 18 7 84 2 28 20 17

T	1					Millions admin a .	s for sale assumed
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. )(O Full Ecl.)
B.C. 8.		d. h. m.	d. h. m.	B.C. 5.		d. h. m.	d. h. m.
E.	JAN. ,	11 19 49	11 19 20	B.A.	JAN	9 10 59	9 7 59
d. $h$ . $m$ .	FEB.	10 8 33	10 13 59	March.	FEB.	7 28 48	7 19 9
23 4 58	MAR.	11 21 17	12 7 14	d. h. m. 22 22 25	MAR.	( 8 12 27	8 6 49
	APRIL	10 10 1	10 22 6	22 22 20	0	28 6 49	28 20 11
1	MAY.	( 9 22 45	10 10 13		APRIL	7 1 11	6 19 24
	0	24 17 7	24 7 56		MAY .	6 18 55	6 9 9
	June .	8 11 29	8 19 57		JUNE .	5 2 89	4 28 59
	July.	8 0 13	8 4 10		JULY.	4 15 28	4 15 28
	Aug.	6 12 57	6 11 53		AUG.	8 4 7	8 6 56
	SEPT	5 1 41	4 20 7		SEPT.	(1 16 51	1 21 46
	Ост	4 14 25	4 5 37		0	16 11 18	15 21 45
	Nov	(3 3 9	2 16 58		~	(1 5 85	1 11 41
	0	17 21 31	18 6 5		Oct	80 18 19	81 0 87
	_	( 2 15 53	2 6 10		Nov.	29 7 8	29 12 86
	DEC	{	31 21 22		DEC.	28 19 47	28 28 42
			01 21 22		DEC	20 10 41	20 20 42
7.	JAN	$\begin{cases} 1 & 4 & 37 \end{cases}$	•••	_	_		
D.	77	\\$0 17 21	30 14 0	4.	JAN	27 8 81	27 10 0
	Feb	•••	•••	G.	FEB	25 21 15	25 19 40
23 10 47	MAR	1 6 5	1 7 18		0	∫12 15 87	18 8 50
	APRIL	(30 18 49	31 0 15	23 4 14	MAR	(27 9 59	27 5 18
	MAY.	29 7 33	29 15 52		APRIL	25 22 48	25 15 28
	June.	28 20 17	29 5 34		MAY.	25 11 27	25 2 55
	JULY.	27 9 1	27 17 11		JUNE.	21 0 11	28 16 17
	Aug	26 21 45	27 3 13		July.	28 12 55	28 7 81
	SEPT.	25 10 29	25 12 27		Aug	22 1 80	22 0 8
	Ост	23 23 13	23 21 44		0	5 20 1	5 11 44
	Nov.	23 11 57	23 7 39		SEPT	20 14 28	20 16 59
	DEC.	22 0 41	21 18 31		Oct.	20 8 7	20 9 27
		21 13 25	21 6 28		Nov.	18 15 51	19 0 89
<b>6.</b> c.	JAN	20 2 9	19 19 32		DEC	18 4 85	18 14 11
23 16 36	FEB	18 14 54	18 9 44		_	l	
20 10 90	MAR	20 3 38	20 0 50	3.	JAN	16 17 20	17 1 55
	0	∫ 3 22 0	4 5 50	F.	FEB	15 6 4	15 11 55
	APRIL	(18 16 22	18 16 32	23 10 8	MAR	16 18 48	16 20 87
	MAY .	18 5 6	18 8 12		APRIL	15 7 82	15 4 89
	June . July .	16 17 50	16 23 7		MAY .	14 20 16	14 12 54
	Aug.	16 6 34	16 12 48	}	June .	18 9 0	12 22 26
	SEPT.	14 19 18	15 1 11	1	Jurx.	12 21 44	12 10 7
	O O	13 8 2	13 12 33		Aug	11 10 28	11 0 24
	Oct.	28 2 24	27 14 21		SEPT	9 28 12	9 17 4
	Nov.	12 20 46	12 23 27		Ocr	9 11 56	9 11 16
	DEC.	11 9 30	11 10 12		Nov.	8 0 40	8 5 44
	EU	10 22 14	10 21 1		DEC	7 18 24	7 28 5
				_	j	1	I

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
B.C.		d. h. m.	d. h. m.	A.D. 2.		d. h. m.	d. h. m.
2.	JAN	6 2 9	6 <b>14 1</b> 9	A.	JAN.	2 17 18	2 13 54
E.	0	20 20 31	20 14 3	d. $h$ . $m$ .	FEB	1 6 2	1 8 32
March. $d. h. m.$	FEB	4 14 53	5 2 59	23 9 18	MAR	2 18 46	3 2 28
23 15 51	Mar	6 3 37	6 13 11			(1 7 30	1 18 30
	APRIL	4 16 21	4 21 27		APRIL	30 20 14	(1 7 58
	MAY .	4 5 5	<b>4 4 3</b> 9		0	(15 14 36	15 6 11
	June .	2 17 49	2 11 42		MAY .	30 8 58	(30 18 53
		2 6 33	<b>1</b> 19 47		JUNE .	28 21 42	29 3 51
	JULY O	17 0 55	17 7 54		JULY.	28 10 26	28 11 51
		(31 19 17	31 5 56		Aug.	26 23 10	26 19 54
	Aug	30 8 1	29 18 56		SEPT	25 11 54	25 4 52
	SEPT	28 20 45	28 11 6		Oct	25 0 38	24 15 20
	Oct	28 9 29	28 5 19		0	(819 0	9 2 1
	Nov	26 22 13	27 0 48		Nov.	23 13 22	23 3 37
,	DEC	26 10 57	26 19 39		DEC	23 2 6	22 17 45
		(10 5 19	10 0 14	3.	JAN	21 14 50	21 9 31
1. D.C.	T	17	10 0 14	G.	FEB.	20 3 35	20 2 21
2.0.	JAN Feb	23 12 25	25 12 26	23 15 7	MAR.	21 16 19	21 19 22
00 01 40			24 2 19	10 10 .	APRIL	20 5 3	20 11 37
22 21 40	MAR	24 1 9	24 13 14	}	0	(4 23 25	4 20 19
	APRIL	22 13 53	22 21 44		MAY.	19 17 47	20 2 19
	MAY.	22 2 37	22 4 46		JUNE .	18 6 31	18 15 3
	June.	20 15 21	20 11 24		JULY.	17 19 15	18 1 59
	0	$\begin{cases} 5 & 9.43 \\ 20 & 4.5 \end{cases}$	5 12 45		Aug.	16 7 59	16 11 46
	JULY.	(20 4 5	19 18 45		SEPT	14 20 43	14 21 10
	Aug	18 16 49	18 3 52		Oct.	(14 9 27	14 6 55
	SEPT	17 5 33	16 15 37		0	29 3 49	29 2 59
	Oct	16 18 17 15 7 1	16 6 26		Nov.	12 22 11	12 17 24
	Nov		14 23 59		DEC.	12 10 55	12 4 47
	DEC	$\begin{cases} 14 & 19 & 45 \\ 29 & 14 & 7 \end{cases}$	14 19 14				
A.D.			29 15 17	4. F.E.	JAN	10 23 40	10 17 9
1.	Jan	13 8 30	13 14 35	1	FEB	9 12 24	9 6 30
В.	Feb	11 21 14	12 8 25	22 20 56	MAR	10 1 8	9 20 52
23 3 29	MAR	13 9 58	13 23 32		APRIL	8 13 52	8 12 4
]	APRIL	11 22 42	12 11 37		0	(23 8 14	23 13 27
	MAY .	11 11 26	11 21 1		MAY.	8 2 36	8 3 40
	June .	∫10 O 10	10 4 39		JUNE.	6 15 20	6 19 0
	0	124 18 32	24 13 24		JULY.	6 4 4	6 9 30
	JULY.	9 12 54	9 11 36		Aug.	4 16 48	4 22 45
	Aug	8 1 38	<b>7 1</b> 8 56		SEPT	3 5 32	3 10 53
	SEPT	6 14 22	6 3 40		Ocr	2 18 16	2 22 14
	Ocr	6 3 6	5 14 33		0	(17 12 38	17 2 43
	Nov	<b>4 15</b> 50	4 4 1		Nov	§ 1 7 0	1 9 13
	DEC	4 4 34	3 20 1			(30 19 44	30 20 5
l					DEC	30 8 28	30 6 55

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 5		d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
D.	JAN	28 21 13	28 17 47	8.	JAN	26 12 22	27 1 9
d. $h.$ $m.$	FEB	27 9 57	27 4 53	A.G.	0	(10 6 44	10 1 36
23 2 44	MAR	28 22 41	28 16 39	d. $h$ . $m$ .	FEB	25 1 6	25 12 27
	APRIL	27 11 25	27 5 33	22 20 11	MAR	25, 13 50	25 21 27
	MAY .	27 0 9	26 19 42		APRIL	24 2 34	24 4 56
	JUNE.	25 12 53	25 10 55		MAY .	23 15 18	28 11 50
	JULY.	25 1 37	25 2 37		JUNE.	22 4 2	21 19 18
	Aug	23 14 21	23 18 4		JULY .	21 16 46	21 4 12
	SEPT	22 3 5	22 8 47		0	(511 8	5 17 18
	Ост	21 15 49	21 22 29		Aug	20 5 30	19 15 44
	Nov	20 4 33	20 11 8	,	SEPT	18 18 14	18 6 20
	DEC	19 17 17	19 22 44		Ост	18 6 58	17 28 45
					Nov	16 19 42	16 18 58
6.	JAN	18 6 1	18 9 19		DEC	16 8 26	16 14 28
с.	FEB	16 18 45	16 19 4				•
	0	(3137	3 23 38	9.	JAN	14 21 11	15 8 23
23 8 33	MAR	18 7 29	18 4 21	F.	FEB	18 9 55	18 28 45
	APRIL	16 20 13	16 13 52	23 2 0	MAR	<b>14 22 3</b> 9	15 12 1
	MAY .	16 8 57	16 0 25		APRIL	18 11 23	18 21 32
	JUNE .	14 21 41	14 12 42		MAY .	13 0 7	18 5 7
	JULY.	14 10 25	14 3 2		June .	11 12 51	11 11 47
	Aug	(12 23 9	12 19 6		JULY .	<b>11</b> 1 35	10 18 <b>4</b> 1
	0	27 17 31	27 11 26		Aug	9 14 19	9 2 52
•	SEPT	11 11 53	11 12 10		SEPT	8 3 3	7 18 19
	Oct	11 0 37	11 5 16		Oct	7 15 47	7 2 40
	Nov	9 13 21	9 21 25		Nov	6 4 31	5 18 57
į	DEC	9 2 5	9 11 58		DEC	5 17 15	5 18 80
		,			0	20 11 37	20 14 24
7.	JAN	7 14 50	8 0 38	40	_		
В.	FEB	(6 3 34	6 11 22	10. E.	JAN	4 5 59	4 8 56
	0	20 21 56	20 23 42		FEB.	2 18 43	3 3 36
23 14 22	MAR.	7 16 18	7 20 29	23 7 49	MAR.	4 7 27	4 20 4
	APRIL	6 5 2	6 4 33		APRIL	2 20 11	8 9 86
	MAY.	5 17 46	5 12 24		MAY .	2 8 55	2 20 14
	JUNE.	4 6 30	3 21 1			(31 21 39	(1 4 89
	JULY.	3 19 14	3 7 26		O T	(15 16 1	15 9 14
		2 7 58	1 20 24		JUNE .	(30 10 23	00 11 52
1	Aug. O	317 2 20	17 4 0		JULY	29 23 7	29 19 0
	_	31 20 42	31 12 3		Aug	28 11 51	28 8 6
1	SEPT	30 9 26	30 5 48		SEPT Oct	27 0 35 26 13 19	26 12 57 26 1 10
	Ост	29 22 10	30 0 29	,	Nov.		
1	Nov.	28 10 54	28 18 43			25 2 3	24 15 54 10 5 5
	DEC	27 23 38	28 11 12	-	O Dec	24 14 47	10 5 5 24 8 50
	1	1				C== += #1	23 G OU

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. )(O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. (() Full Ecl.)
A.D. 11.		d. h. m.	d. h. m.	A.D. 14.		d. h. m.	d. h. m.
D.	JAN	23 3 32	23 3 6	G.	JAN	19 18 42	1 .
March. $d. h. m.$	FEB	21 16 16	21 21 20	March.	FEB.	1	19 16 40
23 13 37	MAR	23 5 0	23 14 18	d. h. m. 23 7 3	MAR.	18 7 26 19 20 10	18 3 21
	APRIL	21 17 44	22 5 3		0	( 3 14 32	19 14 27 4 3 42
	MAY .	21 6 28	21 17 13		APRIL	18 8 54	
	0	(5 0 50	4 14 52		MAY.	17 21 38	18 2 26 17 15 46
1	June .	19 19 12	20 3 9		June .	16 10 22	16 6 25
	JULY.	19. 7 56	19 11 40		JULY.	15 23 6	15 22 3
ŀ	Aug	17 20 40	17 19 47		Aug.	14 11 50	14 13 53
	SEPT	16 9 24	16 4 24		SEPT	(13 0 34	13 5 19
	Oct	15 22 8	15 14 12		0	27 18 56	27 5 52
	Nov	∫14 10 52	14 1 36	Ì	Oct	12 13 18	12 19 52
	0	29 5 14	29 14 26		Nov.	11 2 2	11 9 16
	DEC	13 23 36	13 14 46		DEC.	10 14 46	10 21 30
12.	JAN	12 12 21	12 5 36	15.	JAN	9 3 31	0 0 00
С.В.	FEB	11 1 5	10 21 41	F.	FEB.	7 16 15	9 8 33 7 18 33
22 19 26	MAR.	11 13 49	11 14 27	23 12 52	MAR.	(9 4 59	5 55
	APRIL	10 2 33	10 7 1		0	23 23 21	
	MAY .	9 15 17	9 22 31		APRIL	7 17 43	24 11 1 7 12 50
	JUNE .	8 4 1	8 12 17		MAY.	7 6 27	6 22 32
	July.	7 16 45	8 0 16		JUNE.	5 19 11	5 9 43
	Aug	6 5 29	6 10 46		JULY.	5 7 55	4 22 58
	SEPT	4 18 13	4 20 31		Aug.	3 20 39	3 14 17
	Ocr	4 6 57	4 6 15		SEPT	(2 9 23	2 7 9
	Nov	2 19 41	2 16 29		0	17 8 45	16 20 0
	Dua	(2 8 25	2 8 26			(122 7	2 0 36
	DEC	81 21 10	81 15 13		Ост	81 10 51	31 17 34
		,	l		Nov	29 23 35	30 9 11
13.	JAN.	30 9 54	30 3 49		DEC	29 12 19	29 22 53
Α.	FEB	28 22 38	28 17 23				
28 1 15	MAR.	30 11 22	80 7 54	16.	JAN.	28 1 4	28 10 31
	0	14 5 44	14 13 33	E.D.	FEB.	26 13 48	26 20 14
	APRIL	29 0 6	28 28 9	22 18 41	Mar.	27 2 32	27 4 34
	MAY .	28 12 50	28 14 38		APRIL	25 15 16	25 12 12
	JUNE .	27 1 34	27 5 42	1	MAY .	25 4 0	24 20 9
	JULY.	26 14 18	26 19 48		June .	23 16 44	23 5 29
	Aug	25 3 2	25 8 44	-	JULY.	28 5 28	22 17 5
	SEPT	23 15 46	23 20 43		Aug	21 18 12	21 7 29
	0	8 10 8	7 22 10		SEPT	20 6 56	20 0 25
		23 4 30	28 8 5		Ост	19 19 40	19 18 59
	Nov.	21 17 14	21 19 8		Nov	18 8 24	18 13 47
	DEC. ,	21 5 58	21 5 59		DEC	17 21 8	18 7 24
				`			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 17. c. March. d. h. m. 23 0 30	Jan  O FEB  MAR  APRIL	d. h. m. {16  9 52 81  4 14 14 22 86 16 11 20 15  0  4	d. h. m. 16 22 41 80 22 9 15 11 18 16 21 10 15 5 11	A.D. 20. G.F. March. d. h. m. 22 17 56	JAN FEB MAR APRIL MAY .	d. h. m.  14 1 2  12 13 46  13 2 30  11 15 14  11 3 58	d. h. m. 13 21 51 12 16 1 13 9 36 12 1 27 11 14 53
	MAY . JUNE . JULY . O AUG SEPT Oct Nov	14 12 48 13 1 32 {12 14 16 27 8 38 11 3 0 9 15 44 9 4 28 7 17 12	14 12 9 12 19 3 12 8 6 27 15 8 10 13 19 9 2 26 8 18 36 7 13 11		JUNE . JULY . AUG SEPT OCT Nov O DEC	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10 1 56 9 11 18 7 19 86 6 4 4 5 18 25 4 0 5 19 10 15 3 12 19
18 <b>.</b> в.	JAN O Feb	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7 8 46 6 3 40 20 8 50 4 20 24	21. E.	JAN FEB	2 9 51 31 22 35 	2 2 11 31 17 27  2 9 42
23 6 19	MAR APRIL MAY . JUNE .  JULY C  AUG SEPT OCT NOV DEC	5 20 9 4 8 53 8 21 87 2 10 21 1 28 5 16 17 27 81 11 49 30 0 33 28 18 17 28 2 1 26 14 45 26 3 29	6 10 9 4 20 58 4 5 15 2 12 18 1 18 54 16 19 27 81 2 22 29 11 42 27 28 38 27 14 32 26 8 4 26 8 11	22 23 45	MAR  April  May.  June.  July.  Aug.  Sept.  Oct.  Nov.  Dec.	2 11 19 { 1 0 3	1 2 15 30 18 14 15 3 46 30 8 57 28 21 57 28 9 19 26 19 87 25 5 82 24 15 41 8 10 52 28 2 20 22 13 38
19. A. 23 12 8	O JAN. FEB. MAR. APRIL MAY JUNE O JULY AUG. SEPT. OCT. NOV. DEC.	23 6 25 22 19 9 21 7 58 6 2 15 20 20 37 19 9 21 17 22 5 17 10 49 15 23 83	20 19 11 19 2 51 17 11 53 16 22 58	22. D. 23 5 84	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT O Nov DEC	21 7 28 19 20 7 21 8 51 19 21 85 { 4 15 57 19 10 19 17 28 8 17 11 47 16 0 81 14 18 15 {14 1 59 {28 20 21 12 14 48 12 8 27	2i 1 87 19 14 24 21 4 9 19 18 50 4 20 59 19 10 8 18 1 80 17 16 16 16 6 8 14 18 47 14 6 42 28 10 88 12 18 4 12 5 8

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 23. c. March. d. h. m. 23 11 28	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	d. h. m.  10 16 12 9 4 56 10 17 40 9 6 24 8 19 8 7 7 52 6 20 36 5 9 20 3 22 4 3 10 48 1 28 32 { 1 12 16 31 1 0	d. h. m. 10 15 44 9 2 12 10 12 45 8 23 56 8 12 19 7 2 13 6 17 26 5 9 23 4 1 22 3 16 43 2 6 58 1 19 56 81 7 35	A.D. 26. F. March. d. h. m. 23 4 49	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG. O SEPT OCT	d. h. m. 7 7 22 5 20 6 20 14 28 7 8 50 5 21 34 5 10 18 3 23 2 3 11 46 2 0 30 16 18 52 31 13 14 30 1 58 29 14 42	d. h. m. 7 19 31 6 9 25 20 9 20 7 20 31 6 5 16 5 12 20 8 19 14 8 2 34 1 11 37 17 0 42 30 23 16 29 14 1 29 7 36
24. B.A. 22 17 12	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT Nov	29 13 45 28 2 29 {13 20 51 {28 15 18 27 3 57 26 16 41 25 5 25 24 18 9 28 6 58 { 7 1 15 {21 19 87 21 8 21 19 21 5 19 9 49	29 18 0 28 3 22 14 6 52 28 12 10 26 21 12 26 7 22 24 19 26 24 9 45 28 2 5 6 19 37 21 19 35 21 18 11 20 5 48 19 20 37	27. E. 28 10 38	Nov DEC  JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	28	
25. g. 22 28 1	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OOT NOV DEC. ;	17 22 88 16 11 17 { 3 5 89 18 0 1 16 12 45 16 1 29 14 14 18 14 2 57 {12 15 41 27 10 8 11 4 25 10 17 9 9 5 58 8 18 37	18 9 15 16 19 46 8 6 58 18 4 82 16 12 14 15 19 44 14 4 8 18 14 28 12 3 29 27 11 57 10 19 18 10 18 21 9 8 24 9 2 54	28. p.c. 22 16 27	JAN FEB MAR APRIL MAYJUNE . O JULY . AUG SEPT OCT NOV	15 13 48 14 2 27 14 15 11 18 3 55 12 16 39 {11 5 23 {25 23 45} 10 18 7 9 6 51 7 19 35 7 8 19 5 21 8 {5 9 47 20 4 9	15 16 44 14 11 8 15 3 25 13 16 51 13 3 27 11 11 57 25 15 49 10 19 24 9 2 50 7 11 14 6 21 21 5 9 41 5 0 20 20 13 51

Mean Vernal Equinox,	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D.		d. h. m.	d. h. m.			d. h. m.	d. h. m.
29. B.	T	3 22 32	3 16 58	A.D. 32.		(1 18 41	1 14 58
March.	JAN Feb	2 11 16	2 10 44	52. F.E.	JAN	81 2 25	81 1 16
d. h. m.	MAR.	4 0 0	4 4 34	March.	FEB	29 15 10	29 11 28
22 22 16		2 12 44	2 21 15	d. h. m. 22 15 42	MAR.	80 8 54	29 21 58
	APRIL	(2 1 28	2 11 53	24 10 44		(18 22 16	14 11 4
	MAY .	81 14 12	i.		O April	28 16 88	28 9 27
		(15 8 34	$\begin{cases} 1 & 0 & 9 \\ 14 & 21 & 52 \end{cases}$	,	MAY.	28 5 22	27 22 24
	O June.	30 2 56	30 10 21		June .	26 18 6	26 12 56
	JULY.	29 15 40	29 19 15		JULY.	26 6 50	26 4 48
	Aug.	28 4 24	28 3 48		Aug	21 19 84	24 21 0
	SEPT.	26 17 8	26 12 50		SEPT.	28 8 18	28 18 1
	Oct.	26 5 52	25 22 56	;		(8 2 40	7 14 10
	Nov.	24 18 36	24 10 24		Oct	22 21 2	28 4 8
		( 9 12 58	9 22 49	1	Nov.	21 9 46	21 17 58
ľ	* 0	24 7 20	23 23 21		Dec.	20 22 80	21 6 21
	DEC	(24 ) 20	20 20 21		171.0.	20 22 30	21 0 21
30.	JAN.	22 20 5	22 13 44	33.	JAN	19 11 14	19 17 19
A.	FEB.	21 8 49	21 5 16	D.	FEB	17 28 58	18 2 58
23 4 5	MAR.	22 21 33	22 21 30	22 .21 31	MAR.	19 12 42	19 11 45
	APRIL	21 10 17	21 13 41	22.22.01	0	(8 7 4	8 18 4
1	MAY .	20 23 1	21 5 5		APRIL	18 1 26	17 20 20
	0	( 4 17 23	4 11 4		MAY.	17 14 10	17 5 87
	JUNE .	19 11 45	19 19 2	1	JUNE.	16 2 54	15 16 82
1	JULY.	19 0 29	19 7 28		July.	15 15 88	15 5 41
	Aug.	17 13 13	17 18 23		Avg	14 4 22	18 21 '9
	SEPT.	16 1 57	16 4 42	1	SEPT.	(12 17 6	12 14 22
	Ocr.	15 14 41	15 14 54	,	0	27 11 28	27 4 25
	Nov.	14 3 25	14 1 23		Oct.	12 5 50	12 8 18
	DEC.	13 16 9	13 12 23	Į	Nov.	10 18 84	11 1 46
		== == ==	-0 12 20		DEC.	10 7 18	10 17 48
31.	JAN	12, 4 53	11 ,23 51		J. 1.0	10 4 10	TO T1 #0
G.	FEB	10, 17 37	10 11 58	34.	Jan.	8 20 8	9 7 80
23 9 54	MAR	12 6 21	12 0 55	c.	FEB.	7 8 47	7 18 59
	APRIL	(10 19 5	10 14 51	23 3 20	MAR.	8 21 81	9 4 24
1	0	25 13 27	25 21 7		APRIL	7 10 15	7 12 22
	MAY .	10 7 49	10 5 43		MAY.	6 22 59	6 19 41
	JUNE .	8 20 33	8 21 4		JUNE.	5 11 48	5 8 28
	JULY,	8. 9 17	8 12 18		JULY.	5 0 27	4 12 85
	Aug.	6.22 1	7 2 50		Aug.	8 18 11	8 0 19
	SEPT.,	5. 10 45	5 16 23		SEPT.	2 1 55	1 14 42
	Oct.	<b>6 4 23 29</b>	5 4 58			( 1 14 89	1 7 58
	0	19 17 51	19 6 8		Oct	81 8 28	81 2 47
1.	Nov. ,	3, 12 13	3 16 48		Nov.	29 16 7	29 21 52
<b></b> .	DEC. ,	<b>3</b> 0.57	3 4 5		DEC.	29 4 51	29 15 88
		<u> </u>	ŀ			=====================================	

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Mean Vernal	Month.	Mean New Moon.	True New Moon	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.		(O Full Ecl.)	(O Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
		d. h. m.	d. h. m.	A.D. 38.		d. h. m.	d. h. m.
A.D. 35.	JAN	27 17 36	28 6 56	30. E.	JAN	24 8 46	24 5 40
в.	0	(11 11 58	11 6 8	March.	FEB.	22 21 30	22 23 24
March.	FEB	26 6 20	26 19 19	d. h. m. 23 2 35	MAR.	24 10 14	24 16 36
d. h. m.   23 9 9	MAR	27 19 4	28 5 3	200	APRIL	22 22 58	23 8 16
	APRIL	26 7 48	26 12 48		MAY.	22 11 42	22 21 44
	MAY .	25 20 32	25 19 36		June .	21 0 26	21 9 0
	June .	24 9 16	24 2 28		July.	20 13 10	20 18 38
	JULY.	23 22 0	23 10 33		Aug.	19 1 54	19 3 28
	0	(7 16 22	7 22 17		SEPT.	17 14 38	17 12 23
	Aug	22 10 44	21 20 52		Ост.	17 3 22	16 22 4
	SEPT.	20 23 28	20 10 8		Nov.	(15 16 6	15 8 55
	Ocr	20 12 12	20 2 28		0	30 10 28	30 18 29
	Nov	19 0 56	18 21 8		DEC	15 4 50	14 21 4
	Dec	18 13 40	18 16 45				
36.	т	(17 0.04	15 11 0-	39.	JAN	13 17 34	13 10 33
A.G.	Jan	17 2 24 31 20 46	17 11 35	D.	FEB	12 6 18	12 1 15
	FEB	15 15 8	31 17 20	23 8 24	MAR	13 19 2	13 16 54
22 14 58	MAR.	16 3 52	16 4 11 16 17 47		APRIL	<b>12</b> 7 46	12 9 0
22 17 00	APRIL	14 16 36	15 4 22		MAY.	(11 20 30	12 0 47
	MAY.	14 15 30	13 4 22 14 12 39	<b>}</b>	0	26 14 52	26 11 10
	June.	12 18 4	12 19 38		JUNE.	10 9 14	10 15 32
	July.	(12 6 48	12 19 36		JULY.	9 21 58	10 4 50
	0	27 1 10	27 2 10		Aug	8 10 42	8 16 43
	Aug	10 19 32	10 10 8		SEPT	6 23 26	7 3 34
	SEPT	9 8 16	8 19 39		Oct	6 12 10	6 14 0
	Ocr	8 21 0	8 7 46		Nov	$\begin{cases} 5 & 0.54 \end{cases}$	5 0 30
	Nov.	7 9 44	6 22 43		_ 0	(19 19 16	19 18 47
	DEC	6 22 28	6 16 10		Dec	4 13 38	4 11 18
37.	JAN	( 5 11 13	5 11 4	40.	JAN	3 2 22	2 22 25
F.	0	20 5 35	20 8 55	C.B.	FEB	1 15 7	1 10 1
	FEB	3 23 57	4 5 55	00 14 19	3/5	(2 3 51	1 22 12
22 20 47	MAR	5 12 41	5 23 16	22 14 13	MAR	81 16 35	31 11 21
•	APRIL	4 1 25	4 14 5		APRIL	30 5 19	30 1 32
	MAY .	3 14 9	4 2 2		0	(14 23 41	15 4 28
	June.	2 2 53	2 11 32		MAY.	29 18 3	29 16 35
		( 1 15 37	1 19 27		June.	28 6 47	28 8 0
1	JulyC	16 9 59	16 2 35		July.	27 19 31	27 23 8
		(31 4 21	31 2 55		Aug	26 8 15	26 13 28
	Aug	29 19 5	29 10 54		SEPT	24 20 59	25 2 49
1	SEPT	28 5 49	27 20 15		Ост	24 9 43	24 15 15
1	Ост.	27 18 33	27 7 31		_ 0	5845	7 18 43
	Nov	26 7 17	25 21 0		Nov	22 22 27	23 2 58
1	DEC	25 20 <b>1</b>	25 12 33		DEC	22 11 11	22 14 1
		1	ı	1	1	L	i į

r		1 09600-1					885 T 8 FEB 1
Mean Vernal Equinox.	Month	Moan Now Moses (*) Full Rel.)	Moots.	Mean Versal Reprinct.	Month	Month Now 1 Month No. 1 Pall Mail 3.	Mindo
A.D. 41.		d. h. m.	d. h. m.	AD.		d h en	d.h.m
., A.	JAR	20 23 66	21 (0.36)	44.	Jan	集网 基础 二九	19 # 42
March.	Fan	19 12 40	19 10 81	March	Fun .	1: 3 4 :	17 17 M
22 20 2	MAH	21 1 21	क्षा क्षा क्षा	em A L		, 2 22 11	2 10 57
	Aran	. 19 14 N	19 7 9	21 14 27	Mas	11: 10: 123	14 1 24
	MAY .	19 2 52	In 19 6		Armii	14 5 17	10-12-66
	June.	17 15 20	17 H 45		May .	15 14 1	15 20 0
	Just .	17 4 20	17 0 1		Jine	14 6 45	14 7 39
	Aro	15 17 4	15 16 18		Jess.	18 19 20	13 10 1
	Sert	11 5 48	14 14 14		Ara .	112 9 18	11 10 5
	Oct	13 18 82	14 0 45		1	137 2 AS	27 8 16
	Nov	12 7 16	18 19 30		Pers.	料 謝 超	the figure
	Duc	11 20 0	12 4 41		(h.r.	1:) to 41	9 21 84
					Nos.	. # 22 25	# 15 識
42.	JAN	10 8 41	10 16 24	1	Dax.		# 10 S#
ø.	Fun.	H 21 2H	0 2 12	1	š		
29 1 51	MAR.	(10 10 12	10 11 10	45.	Jan .	0 28 61	7 6 17
	0	23 4 84	25 18 54	į e,	Fem .	5 17 fm	6 0 6
	APRIL	B 22 M	H 19 M	23 10 17	Min	7 1 22	7 15 11
	MAY .	8 11 40	H 4 27		Armit	5 18 6	0 8 0
	Juns .	7 0 11	6 14 17		Mar .	D 🥻 (d)	5 12 21°
	JULY .	6 18 8	6 2 18		Je na .	4 15 B1	8 19 57
	Aug	8 1 52	4 10 20		Jus.	3 4 14	8 8 45
	SEPT	( 8 14 86	8 9 10		Arm.	, 1 17 2	) D fan
	0	(IH H BH	IN B M			in a m	(#)  H (37
	Oct	8 8 20	8 8 7		Mart	20 10 M	259 A 284
	Nov	1 16 4	1 21 12		(hy,	20 7 14	39 10 S
	n	(1 4 4H	1 14 11		Nov.	di in the	27 11 1M
	Dac	(80 17 82	81 6 10		Dec	27 # 42	27 5 80
43.	T	00 0 10			0	, 11 8 4	11 # 9
ν.	JAN.	20 6 16 27 10 0	29 17 43	40.	Jan	(का का का	30 O 31
	Fau.	(14 18 22	28 4 9		Fon .	24 10 10	34 In 11
28 7 40	MAR.	29 7 45	14 14 B	263 1 6	Man.	粉盤料	<b>30</b> 10 10
	APRIL	27 20 20			Armit	24 11 299	34 温 14
	MAY.	27 9 18	27 19 49 27 8 8		May .	51 0 55	24 10 86
l	Juns .	25 21 57	1		Juma.	81 1a e	55 In 10
	1 -				€)	5 7 7 23	6 22 91
	JULY .	i	28 10 44	14	Jeny ,	122 1 80	
	0	( 7 17 47	1	4 <b>T</b>	Ato	4	
	8 KPT				Hart.		IN 19 BI
	Ocr.		21 21 2	18	Ocr		
	Nov.		20 16 28	18	Nov.	17 4 46	
	DEC.		20 11 4		Dec	§ 16 17 80	16 8 44
			W-11 4		O	(81 11 56	81 23 BI
Lawrence and a	The state of the s			14	1	4	

July . 29 8 12 29 14 32 Aug 27 20 56 28 2 8 Sept 26 9 40 26 12 58 Oct 25 22 24 25 28 37 Nov 24 11 8 24 10 21 Dec 28 28 52 28 21 16  49. Jan 22 12 87 22 8 27 E. Feb 21 1 21 20 20 2 22 18 38 Mar 22 14 5 22 8 21 April 21 249 20 21 44 June . 19 4 17 19 8 81 July . 18 17 1 18 19 0 Aug 17 5 45 17 9 59 Oct (15 7 18 15 18 20 Oct (15 7 18 15 18 20 Oct (15 7 18 15 18 20 Oct (15 7 18 15 18 20 Oct (16 7 10 18 26 23 22 26 12 32 Aug (27 10 88 26 23 25 Aug (27 10 88 26 23 25 Aug (25 12 6 25 4 11 Oct (26 28 21 26 25 4 11 Oct (28 18 34 28 16 8 Nov (22 1 18 34 28 16 8 Nov (22 1 18 34 28 16 8 Nov (22 1 15 2 22 2 11 Oct (23 18 34 23 16 8 Nov (22 11 50 Oct (21 15 2 22 2 11 Oct (23 18 34 23 16 8 Nov (22 11 50 Oct (23 18 34 23 16 8 Nov (22 11 50 Oct (23 18 34 23 16 8 Oct (23 18 34 23 16 8 Nov (22 11 50 Oct (23 18 34 23 16 8 Nov (23 18 34 23 16 8 Nov (24 16 16 18 Oct (23 18 34 23 16 8 Nov (24 16 18 Oct (23 18 34 23 16 Oct (23 18 34 23 16 Oct (23 18 34 23 16 Oct (23 18 34 23 16 Oct (23 18 34 23 16 Oct (23 18 34 23 16 Oct (23 18 34 23 16 Oct (23 18 34 23 16 Oct (23 18 24 16 Oct (23 18 24 16 Oct (23 18 24 16 Oct (23	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
March.			d. h. m.	d. h. m.			d. h. m.	d. h. m.
A		JAN	15 6 15	15 0 58		JAN	11 21 25	11 23 43
28 6 55		FEB	13 18 59	13 18 16		FEB	10 10 9	10 9 45
May   18 9 11   18 18 87	28 6 55	MAR	15 7 43	<b>15 11 39</b>		MAR	11 22 53	11 19 26
June .   (11 21 55   12 7 8	·	APRIL	13 20 27	14 4 3		APRIL	(10 11 37	10 5 24
O (26 16 17 26 4 54   July 11 10 38   11 17 36   Aug.   9 23 28   10 2 56   Sept.   8 12 7   8 11 56   Oct.   8 0 51 7 21 22   Oct.   8 0 51 7 21 22   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   2 17 29   3 2 39   Oct.   2 17 29   3 2 39   Oct.   2 17 29   3 2 39   Oct.   4 16 1   4 20 47   Oct.   4 16 1   4 20 47   Oct.   2 17 29   3 2 39   Oct.   4 16 1   4 20 47   Oct.   4 11 15   Oct.   4 16 1   4 20 47   Oct.   4 16 1   Acc.   4 20 40   Oct.   4 16 1   Acc.   4		MAY .	13 9 11	13 18 37		0	25 5 59	25 18 20
July 11 10 39 11 17 36 Aug. 9 23 28 10 2 56 Serr. 8 12 7 8 11 56 Oct. 8 0 51 7 21 22 Nov. 6 18 85 6 7 44 Dec. 6 2 19 5 19 18 O 20 20 41 21 7 7 7  48. G.F. Feb. 8 3 48 2 21 47 22 12 44 Mar. 8 16 82 8 12 42 April 29 19 28 30 1 45 July 29 8 12 29 14 82 Aug. 27 20 56 28 2 8 Serr. 26 9 40 26 12 58 Oct. 22 12 24 5 28 21 Aug. 27 20 56 28 2 8 Serr. 26 9 40 26 12 58 Oct. 22 22 24 25 28 37 Nov. 24 11 8 24 10 21 Dec. 28 28 25 28 21 16 Oct. 25 12 1 21 20 20 2 22 18 88 Mar. 22 12 45 22 82 1 April 21 249 20 21 44 O 30 18 57 81 15 22 C 49 10 28 30 1 45 July 26 28 28 2 8 Serr. 26 9 40 26 12 58 Oct. 25 12 24 5 28 28 21 April 21 2 49 20 21 44 O 30 20 26 30 19 38 Oct. 25 11 6 4 87 May . 18 17 1 18 19 0 Aug. 17 7 19 80 Aug. 17 19 80 Aug. 17 19 80 Aug. 26 28 28 21 April 21 2 49 20 21 44 June 19 4 17 19 8 81 July 18 17 1 18 19 0 Aug. 17 5 45 17 9 59 Sefr. 15 18 29 16 0 9 Oct. 15 7 18 15 18 20 O 80 1 85 29 14 15 Nov. 18 19 57 14 1 186 Nov. 10 11 7 10 10 4 5		June .	(11 21 55	12 7 3		May .	10 0 21	9 16 23
Aug. 9 23 28 10 2 56   Sept. 8 12 7 8 11 56   Oct. 8 0 51 7 21 22   Nov. 6 18 85 6 7 44   Dec. 6 18 85 6 7 44   Dec. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 6 7 44   Oct. 6 18 85 8 12 27   Oct. 6 18 18 12 27   Oct. 6 18 18 12 27   Oct. 6 18 18 12 27   Oct. 6 18 18 12 27   Oct. 6 18 18 12 27   Oct. 6 18 18 12 27   Oct. 6 18 18 18 18 18 18 18 18 18 18 18 18 18		0	26 16 17	26 4 54		JUNE.	8 13 5	8 5 0
SEPT. 8 12 7 8 11 56 Oct. 8 0 51 7 21 22 Nov. 6 18 85 6 7 44 DEC. 6 2 19 5 19 18 O 20 20 41 21 7 7  48. G.F. 22 12 44  MAR. 3 16 82 8 12 42 APRIL 2 5 16 2 4 24 MAY. 2 11 80 0 1 20 16 81 6 44 81 11 84 O (15 1 6 14 18 25) JUNE. 29 19 28 30 1 45 JULY. 29 8 12 29 14 82 AUG. 27 20 56 28 2 8 SEPT. 26 9 40 26 12 58 OCT. 25 22 24 25 28 37 Nov. 24 11 8 24 10 21 DEC. 28 28 52 28 21 16  49.  JAN. 2 21 2 8 7  E.  FEB. 21 1 21 20 20 2 22 18 88  MAR. 22 14 5 22 8 27 E.  FEB. 21 1 21 20 20 2 22 18 88  MAR. 22 14 5 22 8 27 MAY. 20 15 88 20 12 14 JUNE. 19 4 17 19 8 81 JULY. 18 17 1 18 19 0 AUG. 17 5 45 17 9 59 SEPT. 15 18 29 16 0 9 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 16 7 18 15 18 20 OCT. 10 10 11 7 10 10 46 18 72 OCT. 12 4 16 1 4 20 47 OCT. 13 16 1 4 20 47 OCT. 14 16 1 1 4 20 47 OCT. 14 16 1 1 4 20 47 OCT. 14 16 1 1 4 20 47 OCT. 14 16 1 1 4 20 47 OCT. 15 16 21 18 20 OCT. 2 17 29 8 2 39 DEC. 2 17 29 8 2 39 DEC. 17 29 8 2 39 DEC. 17 29 8 2 39 DEC. 17 29 8 2 39 DEC. 17 29 8 2 39 DEC. 17 29 8 2 39 DEC. 17 29 8 2 39 DEC. 17 20 4 30 18 52 39 DEC. 17 20 4 30 18 52 39 DEC. 17 20 4 30 18 52 39 DEC. 17 20 4 30 18 52 39 DEC. 17 20 4 30 18 52 39 DEC. 18 10 23 16 22 30 OCT. 18 10 23 16 22 30 OCT. 18 10 23 16 22 30 OCT. 18 10 20 30 OCT. 18 10 20 30 OCT. 18 10 20 30 OCT. 19 10 23 18 22 30 OCT. 19 10 23 18 22 39 DEC. 17 20 3 16 15 15 27 OCT. 18 16 11 15 9 OCT. 18 16 11 15 9 OCT. 18 16 11 15 9 OCT. 18 10 23 16 22 30 OCT. 18 10 20 30 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 10 20 40 OCT. 18 16 14 20 40 OCT. 18 16 14 20 40 OCT. 18 16 14 20 40 OCT. 18 16 14 20 40		July.	11 10 39	11 17 36		July.	8 1 49	7 19 30
Oct 8 0 51 7 21 22 Nov 6 18 85 6 7 44 Dec { 6 2 19 5 19 18 O { 20 20 41 21 7 7 7 }  48. G.F. FEB 8 8 48 2 21 47 22 12 44 MAR 8 16 82 8 12 42 APRIL 2 5 16 2 4 24 MAY . { 118 0 1 20 16 81 6 44 81 11 84 O [15 1 6 14 18 25 JUNE . 29 19 28 80 1 45 JULY . 29 8 12 29 14 82 AUG 27 20 56 28 2 8 SEFT 26 9 40 26 12 58 OCt 25 22 24 25 28 37 Nov 24 11 8 24 10 21 DEC 2 17 29 3 2 39  49. FEB 21 1 21 20 20 2 22 18 38 MAR 22 14 5 22 8 21 APRIL 2 1 2 49 20 21 44 O (5 21 11 6 4 87 MAY . { 20 15 88 20 12 14 JUNE . 18 17 1 18 19 0 AUG 17 5 45 17 9 59 Oct (15 7 18 15 18 20 O (30 1 85 29 14 15 Nov 18 19 57 14 1 86 Nov 10 11 7 10 10 44 NAY . 10 10 10 10 44 NAY . 10 11 7 10 10 44 NAY . 10 11 7 10 10 44 NAY . 11 12 28 10 02 O (30 1 85 29 14 15 Nov 18 19 57 14 1 86 Nov 10 11 7 10 10 44		Aug	9 23 23	10 2 56		Aug	6 14 33	
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Page 1			1		ľ	JAN	14	
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E.   Feb.   21   1   21   20   20   2     3   3   3   4   20   16   17   2   2   3   4   2   2   4   5   2   8   2   2   1   5   2   3   4   4   5   2   1   5   3   5   2   1   5   3   5   4   5   2   1   5   5   5   5   5   5   5   5   5				1		Nov.	22 2 18	22 10 0
22 18 38   Mar.   22 14 5   22 8 21   52   B.A.   Feb.   18 16 81   19 3 18		JAN	22 12 87	22 8 27		DEC.	21 15 2	22 2 12
APRIL 21 2 49 20 21 44 B.A. FEB. 18 16 81 19 8 15 0 15 18 16 19 12 23 APRIL 17 17 59 17 20 4 APRIL 17 17 6 48 17 8 18 17 1 18 19 0 AUG. 17 5 45 17 9 59 Oct. (15 7 18 15 18 20 14 15 Nov. 18 19 57 14 1 36 Nov. 10 11 7 10 10 46						_	20 2 ::	00 40 7
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June. 19 4 17 19 8 81  July 18 17 1 18 19 0  Aug. 15 18 29 16 0 9  Oct. 0 15 7 18 15 18 20  O 30 1 85 29 14 15  Nov. 18 19 57 14 1 36  Nov. 10 19 4 17 19 8 81  June 17 6 48 17 8 8  June 15 19 27 15 10 44  July 15 8 11 14 19 4  July 15 8 11 14 19 4  Sept. 12 9 89 11 22 3  Oct. 11 22 28 11 15 8  Nov. 10 11 7 10 10 44		1	12		22 11 59			
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 53. G. March. d. h. m. 22 17 48	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT	d. h. m. 8 12 35 7 1 19 21 19 41 8 14 3 7 2 47 6 15 31 5 4 15 4 16 59 8 5 43 18 0 5 1 18 27	d. h. m. 8 23 46 7 15 1 21 14 0 9 3 15 7 12 45 6 20 21 5 3 2 4 9 55 2 18 5 18 5 36 1 4 33	A.D. 56. D.C. March. d. h. n. 22 11 14	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT	d. h. n. 6 3 45 4 16 29 5 5 13 3 17 57 8 6 41 1 19 25 { 1 8 9 { 30 20 53 29 9 87 27 22 21 27 11 5	d. h. m. 5 20 47 4 13 25 5 6 38 8 23 27 8 14 57 2 4 30 1 16 4 81 2 6 29 11 25 27 20 48 27 6 49
54. F. 22 23 87	OCT  NOV DEC  JAN  O FEB  MAR  APRIL  MAY .  JULY .  O	1 7 11 50 19 55 29 8 89 28 21 23 27 10 8 (11 4 80 (25 22 52 27 11 86 26 0 20 25 18 4 24 1 48 23 14 32 (7 8 54	\$\\\ \begin{array}{cccccccccccccccccccccccccccccccccccc	57. B. 22 17 3	Nov  Dec  Jan  Feb  Mar  April  May .  June .  July .  Aug  Sept	25 23 49 {10 18 11 {25 12 33 24 1 17 22 14 1 24 2 46 22 15 30 22 4 14 { 5 22 36 {20 16 58 20 5 42 18 18 26 17 7 10	25 17 47 11 2 40 25 5 47 28 18 50 22 8 58 24 0 2 22 15 40 22 7 16 5 18 35 20 22 8 20 11 48 19 0 14 17 11 40
55. E. 23 5 26	AUG SEPT OCT NOV DEC JAN OFEB MAR APRIL MAY . JUNE . JULY . OAUG SEPT OCT NOV DEC	22 8 16 20 16 0 20 4 44 18 17 28 18 6 12 (16 18 57 (31 13 19 15 7 41 16 20 25 15 9 9 14 21 58 18 10 87 (12 28 21 (27 17 48) 11 12 5 10 0 49 9 18 88 8 2 17 7 15 1	21 18 0 20 3 48 19 16 4 18 7 2 18 0 16 16 18 52 31 17 33 15 13 24 17 6 29 15 21 8 15 9 7 13 18 45 13 2 57 27 9 20 11 10 44 9 19 6 9 4 45 7 16 10 7 5 34	58. A. 22 22 52	OCT NOV O DEC  JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV O DEC	16 19 54 {15 8 88 {30 3 0 14 21 22 13 10 6 11 22 50 13 11 84 12 0 18 {11 13 2 26 7 24 10 1 46 9 14 30 8 3 14 6 15 58 6 4 42 {4 17 26 {19 11 48 4 6 10	16 22 37 15 9 25 30 2 45 14 20 16 13 7 11 11 18 16 13 5 53 11 18 25 11 8 10 26 11 54 9 23 2 9 14 33 8 6 4 6 20 57 6 10 56 4 23 53 19 2 51 4 11 52

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D.		3 7	J 1				
59. G.	-	d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
March.	JAN	2 18 55	2 22 55	62. c.	JAN	28 22 49	29 11 47
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	FEB	1 7 39	1 9 5	March.	FEB	27 11 33	28 1 27
25 4 41	MAR	2 20 23	2 18 40 1 4 9	d. h. m.	O	(14 5 55	14 0 28
	APRIL	30 21 51	30 14 17	22 22 7	MAR	\29 0 17 27 13 1	29 12 9 27 20 30
	MAY .	30 10 35	30 1 51		MAY.	27 1 45	27 3 28
	June .	28 23 19	28 15 20		June .	25 14 29	25 10 7
	JULY.	28 12 3	28 6 41		JULY.	25 3 13	24 17 34
	Aug	27 0 47	26 23 20		Aug	23 15 57	23 2 51
	SEPT	25 13 31	25 16 21		0	(7 10 19	7 15 57
	Ocr	25 2 15	25 8 51		SEPT	22 4 41	21 14 50
	Nov	23 14 59	24 0 2		Oct	21 17 25	21 5 52
	DEC	23 3 43	23 13 30		Nov	20 6 9	19 23 34
İ					Dec	19 18 58	19 18 50
60. F.E.	JAN	21 16 28	22 1 5				
	FEB	20 5 12	20 10 56	63.	JAN	18 7 38	18 14 7
22 10 80	MAR	20 17 56	20 19 29	в.	FEB	16 20 22	17 7 45
	A 222	4 12 18	4 20 50	23 3 56	MAR	18 9 6	18 22 39
Ì	APRIL MAY.	18 19 24	19 8 26 18 11 42		APRIL	16 21 50	17 10 32
	JUNE.	17 8 8	16 21 17		MAY.	16 10 34	16 19 48
	JULY.	16 20 52	16 9 7		JUNE.	14 23 18	15 3 21
l	Aug.	15 9 36	14 23 35		July .	14 12 2	14 10 21
	SEPT.	(13 22 20	13 16 26		Aug.	13 0 46	12 17 48
	0	28 16 42	28 12 22		SEPT	11 13 30	11 2 42 10 13 47
İ	Oct	13 11 4	13 10 46		Nov.	9 14 58	9 3 25
	Nov	11 23 48	12 5 15		DEC.	9 3 42	8 19 32
	DEC	11 12 32	11 22 33		DEC.	0 0 12	0 10 01
61.	JAN	10 1 16	10 13 38	64.	JAN	7 16 26	7 13 27
D.	FEB	8 14 0	9 2 7	A.G.	0	22 10 48	22 16 52
22 16 19	MAR	(10 2 44	10 12 8		FEB	6 5 10	6 7 59
	0	21 21 6	24 21 6	22 9 45	MAR	6 17 54	7 1 46
	APRIL	8 15 28	8 20 15		APRIL	5 6 38	5 17 38
	MAY .	8 4 12	8 3 21		MAY .	4 19 22	5 6 55
	June .	6 16 56	6 10 26		JUNE .	3 8 6	3 17 42 3 2 38
	JULY .	6 5 40	5 18 36		JULY.		17 5 13
	Aug	4 18 24	4 4 54		0	(17 15 12	1 10 40
	SEPT	3 7 8	2 18 7		Aug	30 22 18	30 18 51
	0	(18 1 30	18 4 13		SEPT	29 11 2	29 3 58
	Ocr	2 19 52	2 10 20		Oct.	28 23 46	28 14 83
	Nov	1 8 36	1 4 53		Nov.	27 12 30	27 2 57
	DEC	80 10 4	$\begin{vmatrix} 1 & 0 & 22 \\ 30 & 19 & 9 \end{vmatrix}$		DEC	27 1 14	26 17 10
	JE0	30 10 ±	(30 10 0				

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)
A.D.		d. h. m.	d. h. m.	A.D. 68.		d. h. m.	d. h. m.
65.	0	(10 19 37	11 7 9	C.B.	JAN	23 5 9	23 8 28
F.	JAN	25 13 59	25 8 56	March. $d$ , $h$ , $m$ ,	FEB	21 17 53	21 18 5
March.	FEB	24 2 43	24 1 41	22 9 0	MAR	22 6 37	22 3 17
d. h. m. 22 15 34	MAR.	25 15 27	25 18 37		APRIL	20 19 21	20 12 45
20 01	APRIL	24 4 11	24 10 44		0	( 5 13 43	6 1 29
	MAY.	23 16 55	24 1 19		MAY .	120 8 5	19 23 19
	June .	22 5 39	22 13 57		JUNE.	18 20 49	18 11 41
	0	(7 0 1	6 12 1		July.	18 9 33	18 2 9
	JULY.	21 18 23	22 0 54		Aug.	16 22 17	16 18 21
	Aug.	20 7 7	20 10 42		SEPT.	15 11 1	15 11 32
	SEPT.	18 19 51	18 20 13		Oct	(14 28 45	15 4 41
	Oct	18 8 35	18 6 4		0	29 18 7	29 7 9
	Nov.	16 21 19	16 16 38		Nov	13 12 29	13 20 50
	DEC.	(16 10 3	16 4 5		DEC	13 1 13	13 11 20
	0	31 4 25	31 15 22				
		`		69.	JAN	11 13 58	11 23 52
66.	Jan	14 22 48	14 16 26	Α.	FEB	10 2 42	10 10 27
E.	FEB	13 11 32	13 5 45	22 14 49	Mar	11 15 26	11 19 25
22 21 23	MAR	15 0 16	14 20 2		APRIL	∫10 4 10	10 8 21
	APRIL	13 13 0	13 11 12		0	24 22 32	25 7 47
	MAY.	13 1 44	13 2 45	•	MAY .	9 16 54	9 11 9
	JUNE.	$\int 11 \ 14 \ 28$	11 18 4		June.	8 5 38	7 19 49
	_ 0	26 8 50	26 1 49		JULY.	7 18 22	7 6 22
	July.	11 8 12	11 8 32		Aug	6 7 6	5 19 81
	Aug	9 15 56	9 21 48		SEPT	4 19 50	4 11 21
	SEPT	8 4 40	8 9 59		Ост	∫ 4 8 34	4 5 16
	Oct	7 17 24	7 21 24		0	19 2 56	18 21 89
	Nov	6 6 8	6 8 27		Nov	2 21 18	3 0 2
	DEC	5 18 52	5 19 20		DEC	$\int 2 10 2$	2 18 14
67.	JAN	4 7 36	4 6 8			(81 22 46	•••
D.	FEB	2 20 20	2 16 54	70.	_	٠	1 10 86
23 3 12	MAR	4 9 4	4 3 56	G.	JAN	80 11 80	31 0 22
	APRIL	2 21 48	2 15 40		FEB		
		( 2 10 32	2 4 32	22 20 38	Mar	ſ 1 0 14	1 11 28
1	MAY O	317 4 54	17 12 2	22 20 00	MAR	1 € 12 58	80 20 18
1		31 23 16	31 18 43		APRIL	29 1 42	29 8 40
1 ,	JUNE.	30 12 0	30 9 59		MAY.	28 14 26	28 10 32
	JULY.	30 0 44	30 1 44		JUNE.	27 8 10	26 17 57
	Aug	28 13 28	28 17 16		JULY.	26 15 54	26 8 6
	SEPT	27 2 12	27 8 2		Aug	25 4 38	24 14 51
	Oct	26 14 56	26 21 46		SEPT	23 17 22	28 5 41
* .	0	$\int 10 \ 9 \ 18$	9 22 27		Oct	23 6 6	22 23 17
	Nov.	25 3 40	25 10 25		Nov	21 18 50	21 18 84
	DEC	24 16 24	24 21 58		DEC	21 7 34	21 13 59
	1	1	11	ll .			1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 71. F. March. d. h. m. 23 2 27	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT	d. h. m.  19 20 19 18 9 8 5 3 25 19 21 47 18 10 31 17 23 15 16 11 59 16 0 48 (14 18 27 (29 7 49 13 2 11 12 14 55	d. h. m. 20 7 50 18 22 58 4 21 46 20 11 1 18 20 22 18 3 50 16 10 30 15 17 26 14 1 47 29 18 3 12 12 26 12 2 0	A.D. 74. B. March. d. h. m. 22 19 58	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	d. h. m.  16 11 29 15 0 18 16 12 57 15 1 41 14 14 25 18 3 9 12 15 58 11 4 37 9 17 21 9 6 5 7 18 49 ( 7 7 33	d. h. m.  16 4 59  14 21 2  16 13 43  15 6 11  14 21 33  13 11 15  12 23 10  11 9 41  9 19 32  9 5 22  7 15 42  7 2 42
72. E.D. 22 8 16	Nov DEC JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT Nov	11 8 89 10 16 23 9 5 7 { 7 17 51 22 12 18 8 6 85 6 19 19 6 8 8 4 20 47 4 9 81 { 2 22 15 {17 16 87 { 1 10 59 30 23 48 80 12 27 29 1 11	10 18 28 10 13 8 9 8 30 8 3 1 22 10 0 8 19 17 7 8 86 6 19 8 5 8 23 4 10 85 2 17 49 17 15 55 1 2 2 30 12 5 30 0 29 28 15 22	75. A. 28 1 42	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT Nov O DEC	\$\\ 22 \ 1 \ 55\$  \$\\ 5 \ 20 \ 17\$  \$\\ 4 \ 9 \ 1\$  \$\\ 5 \ 21 \ 45\$  \$\\ 4 \ 10 \ 29\$  \$\\ 3 \ 23 \ 13\$  \$\\\ 2 \ 11 \ 57\$  \$\\ 17 \ 6 \ 19\$  \$\\ 2 \ 0 \ 41\$  \$\\\ 31 \ 13 \ 25\$  \$\\ 30 \ 2 \ 9\$  28 \ 14 \ 53\$  28 \ 8 \ 87\$  26 \ 16 \ 21\$  \$\\\ 11 \ 10 \ 43\$	
73. c. 22 14 5	DEC  JAN  O FEB  APRIL MAY .  JUNE .  JULY .  O AUG  SEPT  OCT  NOV  DEC	23 7 4 7 1 26 21 19 48 20 8 32 19 21 16	28 8 28 27 2 83 11 2 8 25 20 42 27 18 80 26 4 4 25 16 5 24 1 57 28 10 29 6 16 11 21 18 41 20 8 26 19 18 28 18 0 55 17 14 8	76. g.f. 22 7 31	JAN. FEB. MAR. APRIL MAY O JUNE JULY AUG. SEPT. OCT. NOV. O DEC.	22 8 2 21 20 46 5 15 8 20 9 80 19 22 14 18 10 58	28 2 26 28 13 27 22 1 26 21 14 46 20 5 80 19 21 11 3 18 18 6 21 7 4 85 3 16 19 10 0 15 8 85 2 29 11 8

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 77.		d. h. m.	d. h. m.	A.D. 80.		d. h. m.	d. h. m.
E	JAN	13 2 39	13 7 44	B.A.	JAN	10 17 49	11 3 11
d. h. m.	FEB.	11 15 23	11 17 36	March.	FEB	9 6 33	9 19 43
22 13 20	MAR	13 4 7	13 2 44	d. h. m. 22 6 47	Mar	( 9 19 17	10 9 14
	APRIL	11 16 51	11 11 42		0	24 13 39	24 6 53
}	MAY.	11 5 35	10 21 23		APRIL	8 8 1	8 19 46
1	June .	9 18 19	9 8 38		MAY.	7 20 45	8 4 0
	JULY.	9 7 3	8 22 0		JUNE.	6 9 29	6 10 54
1	Aug	7 19 47	7 13 29		JULY.	5 22 13	5 17 86
	SEPT	6 8 31	6 6 29		Aug.	4 10 57	4 1 14
	Oct	5 21 15	6 0 2		SEPT.	( 2 23 41	2 10 48
	Nov.	4 9 59	4 17 2		0	17 18 3	17 23 46
	Dec.	3 22 43	4 8 37		Oct.	2 12 25	f 1 22 52
	220.		- 00.		001.	(1 1 9	81 18 58
78.	T. 15-	2 11 27	0.00.11		Nov	30 13 58	80 7 89
78. D.	JAN		2 22 11		DEC	30 2 37	30 2 46
1	FEB	1 0 11	1 9 39		DEC.	30 2 31	30 2 40
22 19 9	MAR	2 12 55	2 19 12		_		
	<b>A</b> 0	1 1 39	1 3 22	81. G.	JAN	28 15 22	28 21 50
	APRILO	15 20 1	16 3 36		FEB	27 4 5	27 15 12
	3.5	30 14 23	30 10 57	22 12 35	MAR	28 16 49	29 5 57
	MAY .	30 3 7	29 18 54		APRIL	27 5 33	27 17 46
	June.	28 15 51	28 4 19		MAY.	26 18 17	27 3 3
	JULY.	28 4 35	27 16 7		JUNE.	25 7 1	25 10 45
	Aug	26 17 19 25 6 3	26 6 42		JULY.	24 19 45	24 17 58
	SEPT	25 6 3	24 23 49		Aug	23 8 29	28 1 45
1	Ocr.	24 18 47	9 20 56		SEPT	21 21 13	21 10 57
	Nov.	23 7 31	24 18 30		Oct	21 9 57	20 22 13
		22 20 15	23 13 20		Nov	19 22 41	19 11 52
-	DEC	22 20 19	23 6 51		DEC	19 11 25	19 8 47
79.	JAN	21 9 0	21 21 59	82.	Jan	18 0 10	17 21 20
c.	FEB	19 21 44	20 10 20	F.	0	( 1 18 32	2 1 20
23 0 58	MAR	21 10 28	21 20 6		FER	16 12 54	16 15 26
	0	$\int 5 \ 4 \ 50$	5 8 58	22 18 21	MAR	18 1 38	18 8 52
	APRIL	19 23 12	20 3 57		APRIL	16 14 22	17 0 82
	MAY.	19 11 56	19 10 50		MAY .	16 3 6	16 13 50
	June.	18 0 40	17 17 47		JUNE .	14 15 50	15 0 47
	JULY.	17 13 24	17 1 57		JULY.	(14 4 84	14 10 2
	Aug	16 2 8	15 12 20		0	28 22 56	28 12 5
	SEPT	∫14 14 52	14 1 41		Aug	12 17 18	12 18 28
	0	29 9 14	29 12 33		SEPT	11 6 2	11 8 4
	Ост	14 3 36	13 18 4		Oct	10 18 46	10 12 82
	Nov	12 16 20	12 12 43		Nov	9 7 30	8 28 20
	DEC	12 5 4	12 8 23		DEC	8 20 14	8 11 40

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
		d. h. m.	d. h. m.	A.D. 86.		d. h. m.	d. h. m.
A.D. 83.	JAN	(7 8 59	7 1 34	. A.	JAN	4 0 8	4 6 49
E.	0	22 3 21	22 15 38	March. $d. h. m.$	FEB	2 12 52	2 17 5
March.	FEB	5 21 43	5 16 48	22 17 40	MAR	4 1 36	4 2 19
$\begin{vmatrix} d. & h. & m. \\ 23 & 0.13 \end{vmatrix}$	MAR	7 10 27	7 8 59		APRIL	2 14 20	2 11 1
25 0 20	APRIL	5 23 11	6 1 26			(234	1 20 2
	MAY .	5 11 55	5 17 20		May O	16 21 26	17 8 31
	June .	4 0 39	4 7 57			31 15 48	31 6 13
	JULY .	( 3 13 23	3 20 53		June .	30 4 32	29 18 24
	0	18 7 45	17 19 14		JULY .	29 17 16	29 8 53
		(2 2 7	2 8 16		Aug	28 6 0	28 1 21
	Aug	31 14 51	<b>3</b> 1 18 38		SEPT	26 18 44	26 18 59
	SEPT	30 3 35	30 4 38		Ocr	26 7 28	26 12 38
}	Oct	29 16 19	29 14 52		0	∫10 1 50	9 15 48
	Nov	28 5 3	28 1 35		Nov	$124\ 20\ 12$	25 5 14
	DEC	27 17 47	27 12 54		DEC	24 8 56	24 19 57
		(11 12 9	11 23 30	87.	JAN	22 21 41	23 8 27
84.	JAN	$\begin{cases} 26 & 6 & 31 \end{cases}$	26 0 51	G.	FEB.	21 10 25	21 18 48
D.C.	FEB	24 19 15	24 13 35	22 23 28	MAR.	22 23 9	23 3 25
22 6 2	MAR	25 7 59	25 3 16		APRIL	21 11 53	21 10 59
	APRIL	23 20 43	23 17 56		0	$\int 6 615$	6 14 28
	MAY .	23 9 27	23 9 13		MAY .	(21 0 37	20 18 29
	June .	21 22 11	22 0 33		JUNE .	19 13 21	19 2 57
	0	6 16 33	6 9 17		JULY.	19 2 5	18 13 26
	JULY .	$121\ 10\ 55$	21 15 20		Aug	17 14 49	17 2 38
	Aug	19 23 39	20 5 9		SEPT.	16 3 33	15 18 40 15 12 53
	SEPT.	18 12 23	18 17 56	! .	Oct	15 16 17	
i	Oct	18 1 7	18 5 54	٠.	0	14 5 1	
	Nov.	16 13 51	16 17 18		Nov.	14 5 1 13 17 45	14 2 26
	DEC	16 2 35	16 4 17		DEC	19 11 40	14 2 20
85.	JAN	14 15 20	14 14 55	88.	JAN	12 6 30	
В.	FEB	13 4 4	13 1 17	F.E.	FEB.	10 19,14	1 .
22 11 51	MAR	14 16 48	14 11 46	22 5 17	MAR	11 7 58	
	APRIL	13 5 32	12 22 55		APRIL	9 20 42	i
	MAY .	12 18 16	12 11 19		MAY .	1	1
	June .	11 7 0	11 1 14		JUNE .	7 22 10	
-	JULY .	10 19 44	10 16 32		JULY .	1	
	Aug	9 8 28	9 8 34		Aug	5 23 38	
	SEPT	7 21 12	8 0 39		SEPT	4 12 22	1
	Oct	7. 9 56	7 16 2		Oct	4 1. 6	
	Nov.	5 22 40	6 6 18		Nov.	2 13 50	1
	0	$120\ 17\ 2$	20 6 45		DEC.	$\begin{cases} 2 & 2 & 34 \\ 01 & 15 & 46 \end{cases}$	
	DEC.	5 11 24	5 19 14		1 .	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	81 21 57
l	1			11	<u></u>	1 '	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 89.	JAN	d. h. m. 30 4 2	d. h. m. 30 15 43	A.D. 92. A.G.	JAN	d. h. m. 27 19 12	d. h. m. 27 13 4
March.	FEB	28 16 46		March. $d. h. m.$	FEB	26 7 56	26 4 33
d. h. m.		(	1 6 43	22 4 33	Mar.	26 20 40	26 20 42
22 11 6	$\mathbf{Mar.} \bigcirc$	15 11 8	15 5 24		APRIL	25 9 24	25 12 49
		(30 5 30	30 18 37		MAY .	24 22 8	25 4 6
	APRIL	28 18 14	29 3 49		JUNE.	23 10 52	23 18 0
	MAY .	28 6 58	28 11 15		JULY.	22 23 36	23 6 19
	June .	26 19 42	$26\ 17\ 56$		Aug.	21 12 20	21 17 22
	July.	26 8 26	26 1 3		SEPT	20 1 4	20 3 46
	Aug	24 21 10	24 9 36		Oct.	19 13 48	19 14 1
	0	8 15 32	8 20 34		Nov.	18 2 32	18 0 36
	SEPT	23 9 54	22 20 28		DEC.	17 15 16	17 11 36
	Oct	22 22 38	22 10 9		DEC	1, 10 10	11 11 50
	Nov	21 11 22	21 2 37		0	(1 9 39	1 18 56
	DEC	21 0 6	20 21 6	93.	JAN	16 4 1	15 23 6
90.	JAN	19 12 51	19 16 16	F.	FEB	14 16 45	14 11 9
с.	FEB.	18 1 35	18 10 32	22 10 21	MAR.	16 5 29	16 0 2
	0	(4 19 57	4 18 10		APRIL	14 18 13	14 13 56
22 16 55	MAR.	19 14 19	20 2 35	,	MAY .	14 6 57	<b>14 4 4</b> 7
22 20 00	APRIL	18 3 3	18 15 49		JUNE .	(12 19 41	12 20 8
	MAY.	17 15 47	18 2 16		0	27 14 3	27 9 27
	June .	16 4 31	16 10 42		JULY .	12 8 25	12 11 23
	JULY.	15 17 15	15 18 9		Aug	10 21 9	11 1 57
	Aug.	(14 5 59	14 1 41		SEPT	9 9 53	9 15 32
1	0	29 0 21	28 22 58		Ocr	8 22 37	9 4 11
	SEPT	12 18 43	12 10 15		Nov	7 11 21	7 16 3
1	Oct	12 7 27	11 20 32		DEC	(705	7 3 20
	Nov.	10 20 11	10 9 1		0	21 18 27	21 18 89
	DEC	10 8 55	9 23 47				
91.	JAN	8 21 40		94.	JAN	5 12 50	5 14 6
В.	FEB.	7 10 24	8 16 27	E.	FEB	4 1 34	4 0 23
	DEB.	22 4 46	7 10 11 22 10 27	22 16 10	MAR	5 14 18	5 10 30
22 22 44	MAR.	8 23 8	9 3 53		APRIL	4 3 2	<b>3</b> 20 56
	APRIL	7 11 52	7 20 24		MAY.	8 15 46	8 8 24
	MAY.	7 0 36	7 10 54		JUNE .	$\int 2 \cdot 4 \cdot 30$	1 21 23
	JUNE .	5 13 20	5 23 3		0	(16 22 52	17 2 42
ĺ	JULY.	5 2 4	5 9 11		JULY.	$\int 1 17 14$	1 12 1
	Aug.	3 14 48	3 18 6			(31 5 58	31 3 52
	0	18 9 10	17 23 10		Aug	29 18 42	29 20 15
	SEPT.	2 3 32	2 2 45		SEPT	28 7 26	28 12 20
		1 16 16	1 11 55		Oct	27 20 10	28 8 80
	Ост.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	30 22 8		Nov.	26 8 54	26 17 18
	Nov.	29 17 44	29 9 42		0	11 3 16	10 19 18
1	DEC	29 6 28		II .	DEC.	125 21 38	26 5 37

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 95.		d. h. m.	d. h. m.	A.D. 98.		d. h. m.	d. h. m.
D	JAN	24 10 22	24 16 27	G. Manah	JAN	21 1 32	21 11 4
d. $h$ . $m$ .	FEB	22 23 6	23 1 58	March. $d. h. m.$	FEB	19 14 16	20 3 27
22 21 59	MAR	24 11 50	24 10 39	22 15 26	MAR	21 3 0	21 16 50
	APRIL	28 0 34	22 19 9		0	( 4 21 22	4 15 11
,	MAY .	22 13 18	22 4 26		APRIL	19 15 44	20 3 14
	0	6 7 40	6 17 7		MAY.	19 4 28	19 11 24
	June .	21 2 2	20 15 27		June.	17 17 12	17 18 20
	JULY.	20 14 46	20 4 45		JULY.	17 5 56	17 1 11
	Aug	19 3 30	18 20 23		Aug	15 18 40	15 9 1
	SEPT	17 16 14	17 13 45		SEPT	(14 7 24	13 18 45
i l	Oct	17 4 58	17 7 49	'	0	29 1 46	29 7 40
ł	Nov	15 17 42	16 1 15		Oct	13 20 8	13 7 3
1	Dec	15 6 26	15 17 8		Nov	12 8 52	11 22 11
					DEC	11 21 36	11 15 44
96.	Jan	13 19 11	14 6 46				
С. В.	FEB	12 7 55	12 18 5	. 99.	JAN	10 10 20	10 10 37
22 3 48	MAR	12 20 39	13 3 20	F.	FEB	8 23 5	9 5 22
	APRIL	11 9 23	11 11 8	22 21 14	MAR.	10 11 49	10 22 31
	MAY .	10 22 7	10 18 25		APRIL	9 0 88	9 13 9
	June.	9 10 51	9 2 8		MAY .	8 13 17	9 0 54
1	JULY.	8 23 35	8 11 27		JUNE .	7 2 1	7 10 18
	Aug	7 12 19	6 23 16	İ	July.	6 14 45	6 18 13
	SEPT	6 1 3	5 13 59		Aug	5 3 29	5 1 44
	Oct	5 13 47	5 7 23		SEPT	8 16 18	8 9 51
	0	20 8 9	20 5 39		Ocr	8 4 57	2 19 22
1	Nov	4 2 31	4 2 21		Nov.	1 17 41	1 6 47
	DEC	8 15 15	3 21 27			(1 6 25	30 20 24
					DEC	\land 19 9	80 12 1
97.	JAN	2 4 0	2 15 7		ŀ		
Α.		31 16 44		100.	JAN	29 7 54	29 5 8
	FEB		1 6 12	E.D.	0	(13 2 16	13 9 59
22 9 37	MAR	2 5 28	2 18 23		FEB.	27 20 38	
5 5.		(31 18 12	(1 8 55	22 8 8	MAR.	28 9 22	28 15 50
	. 0	15 12 34	15 10 46		APRIL	26 22 6	27 7 19
	APRIL	(30 6 56	(30 11 33		MAY.	26 10 50	26 20 40
	MAY .	29 19 40	29 18 17		JUNE .	24 23 34	25 7 52
	JUNE .	28 8 24	28 1 12		JULY.	24 12 18	
	July.	27 21 8	27 9 25		0	(8 6 40	£
	Aug	26 9 52	25 19 56		Aug.	23 1 2	1
	SEPT	24 22 36	24 9 26	[]	SEPT.	1	21 11 24
	. 0	9 16 58	l		Oct.	24 0 00	20 21 18
	Oct	24 11 20			Nov.		19 8 11
	Nov.	23 0 4	22 20 45		DEC.		1
	DEC	22 12 48	22 16 21				-

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 101. c. March. d. h. m. 22 8 52	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC	Moon. (O Full Ecl.)  d. h. m. 17 16 42 { 1 11 4 16 5 26 17 18 10 16 6 54 15 19 38 14 8 22 { 18 21 6 28 15 28 12 9 50 10 22 34 10 11 18 9 0 2 8 12 46	Moon. (O Full Ecl.)  d. h. m.  17 9 58 1 28 59 16 0 38 17 16 9 16 8 9 15 28 52 14 14 32 14 3 49 28 2 34 12 15 42 11 2 38 10 18 9 8 23 43 8 10 32	Vernal	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV O DEC	Moon. (O Full Ecl.)  d. h. m.  15 7 52  18 20 36  14 9 20  12 22 4  {12 10 48  {27 5 10}  10 28 32  10 12 16  9 1 0  7 18 44  7 2 28  { 5 15 12  20 9 84	Moon. (O Full Ecl.)  d. h. m.  15 15 34  14 1 36  14 10 24  12 18 40  12 3 16  27 14 31  10 13 10  10 1 13  8 15 46  7 8 32  7 2 35  5 20 42  20 0 34
102. B: 22 14 41 103. A. 22 20 30	JAN O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT NOV DEC JAN FEB MAR APRIL MAY . JUNE . JULY . AUG	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	6 21 41 22 7 3½ 5 9 12 6 21 19 5 10 25 5 0 36 3 15 39 3 7 5 17 16 50 1 22 14 81 12 38 80 2 2 29 14 31 28 2 14 27 18 15 25 28 37 24 9 31 25 19 26 24 6 3 23 18 8 22 7 46 21 23 8 20 15 32	105. E. 22 8 7 106. D. 22 13 56	JAN FEB MAR APRIL MAY O JUNE . JULY . AUG SEPT OCT O NOV DEC JAN FEB MAR APRIL MAY . JUNE . JUNE .	5 3 56  3 16 41 2 5 25 3 18 9 2 6 53 1 19 37 16 13 59 31 8 21 29 21 5 29 9 49 27 22 33 26 11 17 26 0 1 (9 18 23) 24 12 45 24 1 29  22 14 13 21 2 57 22 15 41 21 4 25 20 17 9 19 5 53 18 18 37	5 18 38  4 4 32 2 16 56 4 3 1 2 11 17 1 18 33 16 21 5 31 1 49 29 10 9 28 20 37 27 9 55 26 2 9 25 20 39 9 15 18 24 15 59 24 10 36  28 8 5 21 16 39 28 8 5 21 16 39 28 8 20 21 11 42 20 18 41 19 1 21 18 8 49
·	SEPT OCT NOV O DEC	19 4 55 18 17 89 17 6 23 { 2 0 45 16 19 7	19 8 8 19 0 7 17 14 51 1 15 6 17 4 2		Aug Sept Oct Nov Dec	17 7 21 15 20 5 15 8 49 13 21 33 13 10 17	16 18 8 15 6 10 14 21 17 13 15 7 18 10 81

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Mean Vertal Equipos	Month.	Mesn New Moon ( Full Ecl.)	True New Meest, ("Full Rel.)	Mosts Vorted Equitors,	Month.	Mean New Moon. (⊃Full Ecl.)	True New Moon. (O Full Edl.)
A.D. 107.		d. h. m.	d. h. m.	A.D. 110.	elda N s	d. h. m.	el. h. m.
March	Jan	11 28 2	12 5 50	٧.	JAN	8 14 12	H 7 14
March.	Fun. ,	10 41 46	10 28 29	March.	Fign	7 2 56	621 4
22 19 45	MAR.,	(12 0 20	12 14 19	$\frac{d}{22}$ 18 11	MAH.	8 15 40	8 11 57
		1.36 18 52	26 12 57		Arnii	7 1 21	7 8 84
	Aran.	10 18 14	11 2 6		MAY .	6 17 8	6 19 21
	MAS .	10 1 58	10 11 18		Jenk.	5 5 52	5 10 87
	June .	H 14 42	H 1H 40		dray.	4 IH HG	5 0 45
	Jeny .	6 B 26	H 1 29		Ata.	8 7 20	8 18 88
	Ara, ,	6 16 10	B H IH		Ser.	1 20 4	2 1 10
	HEPT .	( 5 4 54	4 17 296			(1.848	1 12 6
	O	î 19 23 16	20 4 15		Oct	(80 21 32	80 22 49
	Oct. ,	4 17 84	4 4 40		Nov.	29 10 16	20 9 85
	Nov	8 6 22	2 18 27		Dac.	28 28 0	28 20 81
	Dac	2 19 6	2 10 49			1	2 2 02
	į	بورون اور اور اور اور اور اور اور اور اور اور		111.	<b>f</b> ,	(12 17 22	18 2 54
108.	JAN.	(1 7 %)	1 5 4	ĸ.	JAN.	(27 11 44	27 7 87
B. A.		(30, 30, 34	80 28 55	The second	Fen	26 0 29	25 19 8
	Fun	29 9 19	20 17 54	22 19 0	Man	27 18 18	27 7 25
(2) 2 11 5	1.1	115 B 41	15 2 11	į	Armi.	90 1 67	25 20 46
22 1 81	Man.	(2) 22 8	181 11 42		MAY .	25 14 41	25 11 17
	Aran	28 10 47	28 22 18		Juna.	21 8 25	24 2 85
	MAY .	27 28 81	28 11 25			K H 21 47	H 17 0
	Junk.	20 12 15	20 18 8		dray.	( <b>†28-16-9</b>	28 18 6
	July .	20 0 60	261 1 47		Ara	22 4 58	22 9 10
	Ava	24 18 48	24 9 40		HEPT.	20 17 87	20 28 22
	Serr.	( H H 5)	N 6 10		Oct	20 0 21	20 12 86
			22 IH 84		Nov	18 IO B	19 0 58
	Nov.	22 15 11	22 6 7		DEC.	1H 7 49	1H 12 17
		20 16 89	20 17 80				
	DEC	20 20 00	20 H II	112.	()	3 3 11	2 2 84
109.	JAN	19 5 28	19 0 25	p,u,	JAN	(16 20 88	16 22 54
e.	Fan.	17 18 7	17 17 40		Fan	15 9 17	15 8 48
Ş	O	5 4 19 99	4 19 1	22 0 49	MAR	15 22 1	15 18 24
<b>99 7 98</b>	Man.	(19 6 51	19 10 55		Arnil	14 10 45	14 4 18
	Arnii.	17 19 85	18 8 10		MAY .	18 28 20	18 15 18
	MAY .	17 8 19	17 17 87		Juna.	£ 12 12 18	12 4 0
	Junn.	10 31 8	16 5 57		_ O	27 6 88	27 10 7
	July .	15 9 47	15 16 28		July.	19 0.67	11 18 85
	Ava	§ 18 22 BI	14 1 49		Aug.,	10 18 41	10 10 41
	0	(28 18 58	1		HEFT.	9 2 25	9 8 81
	Surr	12 11 15	12 10 66		Ocr	8 15 9	8 20 10
	Oct	11 28 59	11 20 20		Nov.	7 8 58	7 11 52
	Nov	10 17 18	10 6 58		Dgc	6 16 87	7 2 1
	Dac	10 1 27	0 18 82		O	\$21 10 <b>59</b>	21 8 82
in , what a distribution assistant and a	e drawn Arthur Charles	₹ . Gadakan-aph, Labaran-bon, Ashrin, John yen	The contract of the contract o	entantantantantantantantantantantantantan	· various services and company and company		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 113. B. March. d. h. m. 22 6 38	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEFT OCT NOV DEC	d. h. m. 5 5 22 8 18 6 5 6 50 8 19 34 8 8 18 { 1 21 2 16 16 24 { 1 9 46 30 22 30 29 11 14 27 23 58 27 12 42 26 1 26 25 14 10	d. h. m.  5 14 25 4 1 2 5 10 18 3 18 27 3 2 38 { 1 11 32 17 1 14 30 22 20 30 11 38 29 3 28 27 21 11 27 15 40 26 9 31 26 1 36	A.D. 116. F.E. March. d. h. m. 22 0 4	JAN FEB MAR OAPRIL MAY . JUNE . JULY . AUG SEPT OOCT NOV	d. h. m. 2 20 32 1 9 16 { 1 22 0 81 10 44 { 15 5 6 { 29 23 28 29 12 12 28 0 56 27 13 40 26 2 24 24 15 8 { 9 9 30 24 3 52 22 16 36	d. h. m.  3 0 15 1 18 50 2 11 4  (1 0 17 14 22 28 30 10 36 29 18 47 28 1 49 27 8 51 25 16 56 24 2 55 9 15 41 28 15 28 22 6 29
114. A. 22 12 27	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov	24 2 54 22 15 38 24 4 22 22 17 6 22 5 50 20 18 34 20 7 18 18 20 2 17 8 46 (16 21 30 (31 15 52 15 10 14 14 22 58	24 15 15 23 2 20 24 11 17 22 18 49 22 1 49 20 9 24 19 18 40 18 6 32 16 21 26 16 15 1 31 14 26 15 10 14 15 5 31	117. - D. 22 5 58	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	22 5 20 20 18 4 19 6 48 20 19 32 19 8 16 18 21 0 17 9 44 16 22 28 15 11 12 13 23 56 13 12 40 12 1 24 11 14 8	20 18 24 19 12 47 21 5 41 19 20 9 19 7 57 17 17 81 17 1 42 15 9 35 18 18 4 18 3 58 11 15 27 11 4 57
115. c. 22 18 16	JAN. FEB. MAR. APRIL O MAY JULY AUG. SEPT. OCT. O	. 18 11 48 . 12 0 27 . 13 13 11 . [12 1 55 . 26 20 17 . 11 14 39 . 10 3 23 . 9 16 7 . 8 4 51	18 28 14 12 14 16 14 2 15 12 11 35 26 17 28 11 19 4 10 1 48 9 8 40 7 16 59 6 8 39 5 17 19 21 5 31 4 9 55		JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEFT OCT Nov	10 2 53 { 8 15 87 23 9 59 10 4 21 8 17 5 8 5 49 6 18 83 6 7 17 { 4 20 1 19 14 28 8 8 45 2 21 29 { 1 10 13 80 22 57 80 11 41	

Mean Vertal Equinox.	Month.	Mean New Moon, Full Ecl.)	True New Moon, ( ) Full Kel.)	Mean Vernal Equipox,	Month,	Mean New Moon. ( Full Kol.)	True New Moon. (O Full Eol.)
A.D. 119, 10, March d. h. m 22, 17, 20	Jan., Fin., Man., Armir.	d. h. m. 21 0 26 (12 18 48 (27 18 10 21 1 54 27 14 88 27 8 22	d. h. m. 28 18 8 18 8 12 27 8 12 28 28 12 27 15 46 27 6 20	A.D. 122. g. March. d. h. m. 22 10 57	JAR FEB MAR APRIL MAY .	d. h. m. 25 15 86 24 4 20 25 17 4 24 5 48 28 18 82	d. h. ni. 26 0 15 24 9 57 25 18 22 24 2 14 28 10 29
	At at a Sept Oct Nov Duo	25 16 6 25 4 50 1 8 28 12 1 23 17 81	25 21 10 25 10 50 8 10 1 28 28 16 22 10 47 21 21 47 20 8 40		JUNE . JULY . AUG SEPT OCT NOV	7 12 54 22 7 16 21 20 0 20 8 44 18 21 28 18 10 12 16 22 56 ( 1 17 18	7 22 29 21 20 9 21 8 9 19 22 47 18 15 49 18 10 17 17 4 47 1 9 22
120. A.U. 21 28 19	Jan., Fin., Man., Arnu. May., Jess.	18 9 14 ( 2 8 86 (16 21 56 17 10 42 15 23 26 15 12 10 14 0 54	19 19 30 18 6 21 2 15 25 16 17 23 17 4 16 15 17 27 15 7 11 18 22 5	123. n. 22 16 46	DEC  JAN  FRII  MAR  APRIL  MAY .  C)  JUNE .	16 11 40 15 0 24 18 18 8 15 1 52 18 14 86 (18 8 20 (27 21 42 11 16 4	16 22 1 15 12 57 14 1 15 15 11 4 18 19 8 18 2 4 28 8 87 11 9 8
	Avo Nart Oor Nov Diec	(18 18 84 28 8 0 12 2 22 10 15 6 10 8 50 8 16 81 8 5 18	18 18 40 28 0 27 12 5 18 10 20 12 10 10 12 8 28 10 8 11 8		JULY . AUG Skitt Oct Nov O Dkc	11 4 48 9 17 82 8 6 16 7 19 0 6 7 44 21 2 6 5 20 28	10 17 25 9 8 54 7 17 20 7 9 46 6 4 28 21 0 14 5 28 59
121. F. 22 5 H	Jam Prm Man April May . June . June .	6 18 8 5 6 47 6 19 81 5 8 15 4 20 50 8 9 48 2 22 27 ( 1 11 11	8 22 7 5 8 11 6 17 88 5 8 8 4 18 11 8 0 47 2 14 28 1 5 52	124, c.n. 21 22 83	JAN FRD MAN APRIL MAY . JUNE .	4 9 18 2 21 57 8 10 41 1 28 25 { 1 12 9 81 0 58 29 18 87	4 18 42 8 11 7 4 0 84 2 11 8 1 19 15 81 2 10 29 8 49
	Aug Sert Ocr Nov O Duc	80 28 55 20 12 89 20 1 28 27 14 7 (12 8 29 27 2 51	80 22 87		JULY . Aug Sept Oct Nov Dec	29 2 21 27 15 5 26 8 40 25 16 88 24 5 17 28 18 1	28 16 24 27 1 52 25 14 5 25 5 18 28 28 9 28 18 28

Mean	3645	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New
Vernal Equinox.	Month,	(O Full Ecl.)	O Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ect.)
A.D. 125.		d. h. m.	d. h. m.	A.D. 128.		d. h. m.	d. h. m.
A. March.	JAN	22 6 46	22 13 38	E.D.	JAN	19 21 55	19 15 41
d. h. m.	FEB	20 19 30	21 7 5	d. $h$ . $m$ .	FEB	<b>18 10 3</b> 9	18 4 57
22 4 23	Mar	22 8 14	22 21 45	21 21 50	MAR	18 23 23	18 19 12
	0	6 2 36	5 20 25		APRIL	17 12 7	17 10 19
	APRIL	20 20 58	21 9 26		MAY .	17 0 51	17 1 49
	MAY.	20 9 42	20 18 33		June .	15 18 85	15 17 7
	JUNE.	18 22 26	19 2 4		July.	15 2 19	15 7 38
	July.	18 11 10	18 9 4		Aug	13 15 3	13 20 51
	Aug	16 23 54	16 <b>1</b> 6 40		SEPT	12 3 47	12 9 4
	SEPT	$\int 15 \ 12 \ 38$	15 1 44		Ocr	11, 16 31	11 20 34
	0	(30 7 0	30 12 1		Nov	10 5 15	10 7 39
	Oct	15 1 22	14 13 0		DEC	9 17 59	9 18 33
	Nov.	13 14 6	13 2 50	-			ļ
1	DEC	13 2 50	12 19 3	129.	JAN	(8 6 44	8 5 20
126.	JAN	11 15 34	<b>11 13</b> 0	c.	0	$\{23 \ 1 \ 6$	28 10 48
G.	FEB	10 4 18	10 7 26		FEB.	6 19 28	6 16 8
22 10 12	MAR	(11 17 2	12 1 3	22 3 39	MAR	8 8 12	8 3 0
	0	26 11 24	26 10 5		APRIL	6 20 56	6 14 40
	APRIL	10 5 46	10 16 44		MAY .	6 9 40	6 3 33
1	MAY .	9 18 30	10 5 51		JUNE .	4 22 24	4 17 46
-	JUNE .	8 7 14	8 16 31		JULY.	(411 8	4 9 5
	JULY .	. 7 19 58	8 1 24		0	19 5 80	19 0 34
	Aug.	6 8 42	6 9 30		Aug.	2 28 52	3 0 54
	SEPT.	. 6 4 21 26	4 17 47		SEPT	1 12 36	1 16 29
	0	19 15 48	19 13 28		0	(1 1 20	1 7 19
l	Ост.	4 10 10	4 3 3		Oct	(80 14 4	30 21 5
ŀ	Nov.	. 2 22 54	2 13 49		Nov	29 2 48	29 9 48
	DEC.	2 11 38	2 2 18		DEC	28 15 32	28 21 11
1	1	£	31 16 34				
127.	JAN.	$\int_{0}^{1} 02$	. 1		0	(12 9 55	12 10 24
F.	FEB.	30 13	30 8 19	130.	JAN	27 4 17	27 7 85
		1 1 5	1 1 1 2	В.	FEB	25 17 1	25 17 7
22 16 1	MAR.	11	1	11	MAR.	27 5 45	27 2 12
	<b>†</b>	30 14 3	5 20 17 50	1	APRIL	25 18 29	25 11 87
	APRI	L 29 3 19	1	II	MAY .	25 7 18	24 22 18
	MAY	28 16	29 0 18	Li .	JUNE .	28 19 57	23 10 42
	JUNE	. 27, 44	7 27 12 59	s	0	8 14 19	8 17 85
	JULY	. 26 17 3	1 26 23 48	3	July .	23 8 4	1 23 1 16
	Aug.	25 6 1	5 25 9 41	.	Aug.	21 21 23	21 17 87
	0	9 0 3	7 8 13 38	3	SEPT.	20 10 9	20 10 55
	SEPT.	\ 23 18 5	9 23 19 16	3	Oct.	19 22 58	3 20 4 7
	Ocr.	23 74	8 23 5 14	<u> </u>	Nov.	. 18 11 37	7 18 20 17
1	Nov.	21, 20 2	7 21 15 58	3	DEC.	. 18 0 2	l 18 10 41
	DEC.	21 9 1	1 21 3 20	)	1	1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D.		d. h. m.	d. h. m.	A.D. 134.		d. h. m.	d. h. m.
131.	0	(11848	1 11 46	D.	JAN	13 4 15	13 8 4
A.	JAN	(16 13 5	16 23 4	March. $d. h. m.$	FEB.	11 16 59	12 2 25
March. $d$ , $h$ , $m$ .	FEB	15 1 49	15 9 30	22 8 43	MAR	13 5 43	13 18 28
22 15 16	MAR	16 14 33	16 18 18		APRIL	(11 18 27	12 7 34
	Arril	15 3 17	15 2 9		0	26 12 49	26 5 31
	MAY .	14 16 1	14 9 54		MAY .	11 7 11	11 17 53
	JUNE .	(13 4 45	12 18 37		June .	9 19 55	10 2 5
	0	27 23 7	28 7 16		JULY.	9 8 39	9 9 19
	JULY.	12 17 29	12 5 19		Aug	7 21 23	7 16 38
1	Aug	11 6 13	10 18 39		SEPT.	6 10 7	6 1 1
1	SEPT	9 18 57	9 10 40		Oct	(52251	5 11 15
	Ocr	9 7 41	9 4 44		0	20 17 13	20 23 47
}	Nov	7 20 25	7 23 34		Nov	4 11 35	3 23 49
	DEC	7 9 9	7 17 45		DEC	4 0 19	3 14 50
					l		
132.	JAN	5 21 54	6 9 59	135.	JAN	2 13 3	2 7 54
G.F.	FEB	4 10 38	4 23 35	C.	FEB	1 1 47	1 2 2
21 21 5	MAR	4.23 22	5 10 29	22 14 32	MAR.	2 14 32	2 20 3
	APRIL	3 12 6	3 19 8			(1 3 16	1 12 41
	MAY .	3 0 50	3 2 24		APRIL	30 16 0	(1 3 3
	JUNE.	1 13 34	$\begin{cases} 1 & 9 & 13 \\ 20 & 16 & 43 \end{cases}$		MAY .	30 4 44	30 14 57
	JULY .	$\int 1 218$	\30 16 43		JUNE .	28 17 28	29 0 45
		(30 15 2	30 2 1		JULY.	28 6 12	28 9 18
	Aug	29 8 46	28 14 0		Aug	26 18 56	26 17 34
	SEPT	27 16 30	27 5 2		SEPT	25 7 40	25 2 28
	Ocr	27 5 14	26 22 50		Oct	24 20 24	24 12 35
}	0	$\begin{cases} 10.23 & 36 \end{cases}$	10 23 19		Nov	23 9 8	23 0 12
	Nov	25 17 58	25 18 13		DEC	22 21 52	22 13 31
	DEC	25 6 42	25 13 33				
133.	JAN	28 19 27	24 7 15	136.	JAN	21 10 37	21 4 21
E.	FEB.	22 8 11	22 22 9	B.A.	FEB	19 23 21	19 20 22
22 2 54	MAR.	23, 20 55	24 9 59			( 5 17 48	6 2 35
22 2 34	APRIL	22. 9 89	22 19 10	21 20 21	MAR	20 12 5	20 12 59
	1	(7 4 1	7 0 6		APRIL	19 0 49	19 5 19
	MAY.	21 22 23	22 2 32		MAY.	18 13 33	18 20 36
	JUNE.	20 11 7	20 9 10		June .	17 2 17	17 10 13.
	JULY.	19.23 51	19 16 13		JULY.	16 15 1	16 22 6
	Aug.	18 12 35	18 0 43		Aug.	§15 3 45	1 .
	SEPT.	17, 1 19	16 11 35		0	29 22 7	F
	Oct.	(16 14 8	16 1 21		SEPT.	13 16 29	
	0	81 8 25	31 14 9		Oct.	13 5 13	
1 ,	Nov.	15 2 47	14 18 0		Nov.		1
	DEC.	14 15 81	14 12 44		DEC.	11 6 41	11 1 58

Mean		Mean New	True New	Mean		Mean New	True New
Vernal Equinox.	Month.	Moon. (O Full Ecl.)	Moon.	Vernal Equinox.	Month.	(O Full Ecl.)	(O Full Ecl.)
		d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
A.D. 137.	Jan.	9 19 25	9 13 43	140.	Jan	7 10 35	7 21 28
G.	FEB.		8 2 15	March.	FEB	5 28 19	6 8 46
March.	O .	$\begin{cases} 8 & 8 & 9 \\ 23 & 2 & 31 \end{cases}$	23 16 13	d. h. m. 21 19 36	MAR.	6 12 3	6 18 10
$egin{array}{ccccc} d. & h. & m. \\ 22 & 2 & 9 \\ \end{array}$	MAR	9 20 53	9 15 43	21 10 00	APRIL	5 0 47	5 2 12
44 2 0	APRIL	8 9 37	8 6 9	·	MAY.	4 13 31	4 9 42
	MAY.	7.22 21	7 21 20		June .	(3 2 15	2 17 40
	June .	6.11 5	6 12 46		0	17 20 37	18 5 24
	July.	5 23 49	6 3 47		July.	2 14 59	(2 8 12
. ,	Aug	(4 12 33	4 17 54			(1 8 48	(31 15 9
	0	19 6 55	18 17 37		Aug.	80 16 27	80 5 57
	SEPT	3. 1 17	3 6 55		SEPT	29 5 11	28 23 16
	Oct	2 14 1	2 19 2		Ocr	28 17 55	28 18 5
<b>:</b> .		(1 2 45	1 6 31		Nov	27 6 39	27 12 55
	Nov.	30 15 29	30 17 36		0	(12 1 1	11 18 10
	DEC	30 4 13	30 4 24		DEC	{26 19 28	27 6 19
138.	JAN	28 16 58	28 14 59	141.	JAN	25 8 7	25 21 16
F.	0	(12 11 20	12 23 9	В.	FEB	28 20 51	24 9 24
	FEB	27 5 42	<b>27 1 3</b> 0	22 1 25	MAR	25 9 86	25 18 59
22 7 58	MAR	28.18 26	28 12 28		APRIL	23 22 20	24 2 48
	APRIL	27 7 10	27 0 25		MAY .	28 11 4	28 9 81
	MAY .	26 19 54	26 13 47		0	7 5 26	7 10 9
	JUNE .	25 8 38	25 4 34		June.	21 23 48	21 16 30
	JULY.	24 21 22	24 20 18		July.	21 12 32	21 0 47
	0	8 15 44	8 8 13	}	Aug	20 1 16	19 11 28
	Aug	23 10 6	23 12 19	Ì	SEPT	18 14 0	18 0 57
1	SEPT	21 22 50	22 3 53		Oct	18 2 44	17 17 88
	Ост.	21 11 34	21 18 30		Nov	16 15 28	16 12 28
	Nov.	20 0 18	20 7 54		0	§ 1 9 50	1 9 18
,	DEC	19 13 2	19 20 2		DEC	16 4 12	16 7 59
139.	JAN	18 1 47	18 6 55	142.	JAN	14 16 56	15 2 40
E.	FEB	16 14 31	16 16 39	Α.	FEB	18 5 40	13 18 59
22 13 47	MAR	18 3 15	18 1 39	22 7 14	MAR	14 18 24	15 8 17
	APRIL	16 15 59	16 10 34		APRIL	13 7 8	13 18 38
	MAY .	16 4 43	15 20 15		MAY .	(12 19 52	18 2 42
	June .	14 17 27	14 7 35		0	27 14 14	27 10 48
	JULY .	14 6 11	13 21 4		June .	11 8 86	11 9 84
	Aug	12 18 55	12 12 41		July .	10 21 20	10 16 20
	SEPT.	11 7 39	11 5 50	il	Aug	9 10 4	9 0 5
1	Oct	10 20 23	10 23 28		SEPT	7 22 48	7 9 46
	Nov.	9 9 7	9 16 31		Ост	7 11 32	6 22 8
	DEC	8 21 51	9 8 1		Nov	6 0 16	5 13 26
	0	23 16 13	23 7 54		DEC	5.18 0	5 7 18
ţ	<u> </u>		1	11		l	1

v	Ican ernal uinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
	A.D. 43.		d. h. m.	d. h. m.	A.D. 146.		d. h. m.	d. h. m.
	G.	JAN	4 1 45	4 2 21	С.	JAN	30 5 39	30 0 4
	arch. $h. m.$	FEB	2 14 29	2 21 16	March. $d.$ $h.$ $m.$	FEB	28 18 23	28 12 46
	13 2	MAR	4 3 13	4 14 30	22 6 29	MAR	30 7 7	30 2 23
		APRIL	§ 2 15 57	3 5 2		APRIL	28 19 51	28 17 1
		0	17 10 19	17 3 46		MAY.	28 8 35	28 8 17
		3.C -	(2 4 41	2 16 38		June .	23 21 19	26 23 37
		MAY.	l 31 17 25	(1 1 48		July.	26 10 3	26 14 25
		June .	30 6 9	30 9 29		Aug	24 22 47	25 4 16
		July.	29 18 53	29 16 46		SEPT	23 11 31	23 17 7
ļ		Aug	28 7 37	28 0 40		Oct	23 0 15	23 5 7
		SEPT	26 20 21	26 10 2		Nov	21 12 59	21 16 33
İ		0	∫11 1 <del>4</del> 43	11 19 52		DEC	21 1 43	21 3 32
1		Oct	26 9 5	25 21 29				
		Nov	24 21 49	24 11 17	147.	JAN	19 14 27	19 14 5
		Dec	24 10 33	24 3 17	в.	0	(3 8 49	3 18 31
	144.	JAN	22 23 18	22 20 49		FEB	18 3 11	18 0 21
	F.E.	FEB.	21 12 2	21 14 51	22 12 18	MAR.	19 15 56	19 10 46
91	18 51	MAR.	22 0 46	22 8 7		APRIL	18 4 40	17 21 53
	10 01	0	(5198	5 17 52		MAY .	17 17 24	17 10 18
		APRIL	20 13 30	20 23 36		JUNE .	16 6 8	16 0 17
		MAY.	20 2 14	20 12 45		JULY.	J15 18 52	15 15 39
1		June .	18 14 58	18 23 37		0	130 13 14	30 8 16
1		JULY.	18 3 42	18 8 50		Aug	14 7 36	14 7 48
		Aug	16 16 26	16 17 21		SEPT.	12 20 20	12 23 55
	*	SEPT	(15 5 10	15 2 4		Oct	12 9 4	12 15 22
		0	29 23 32	29 21 5		Nov.	10 21 48	11 5 38
		Oct	14 17 54	14 11 41		DEC.	. 10 10 32	10 18 32
ŀ		Nov.	13 6 38	12 22 35				
İ		DEC	1	12 11 0	148.	JAN.	. (8 23 16	961
	ı 15.	JAN	11 8 6	11 0 55	A.G.	0	123 17 89	23 18 8
	D.	FEB.	9 20 50			FEB.	. 7120	7 16 10
2		MAR.			21 18 7	MAR.	8 0 44	8 1 16
2	- U 4U	0	26 3 56			APRIL	6 13 28	6 9 54
		APRIL	9 22 18			MAY	. 6 2 12	5 18 51
		MAY	1	1		June	. 4 14 56	4 5 6
		June .				July		
		JULY			1	0	18 22	1
		Aug.		1		Aug.	. 2 16 24	
		SEPT.		8 4 17 37		SEPT.	1 5 8	
		0	119 8 2	0 18 21 5	.	OEI I.	(30 17 5	
		Ocr.	. 4 2 49	4 8 44	.	Oct.	. 30 6 36	
		Nov.	. 2 15 26	3 2 14 2		Nov.	. 28 19 20	
			(241	0 2 0 49		DEC.	. 28 8 4	28 19 18
		DEC.	· \( 31 16 5	4 81 12 8	:			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 149. F.		d. h. m.	d. h. m.	A.D. 152.		d. h. m.	d. h. m.
F.	_ 0	$\begin{cases} 12 & 2 & 26 \end{cases}$	11 19 55	C.B. March.	JAN	24 11 59	24 15 47
March.	JAN	(26 20 48	27 7 38	d. h. m.	FEB	23 0 43	23 9 53
d. h. m.	FEB	25 9 32	25 17 48	21 17 22	MAR	23 13 27	24 1 45
21 23 55	MAR	26 22 17	27 2 17		APRIL	22 2 11	22 14 45
	APRIL	25 11 1	25 9 45		0	5 6 20 33	6 12 37
	MAY .	24 23 45	24 17 13		MAY.	21 14 55	22 1 5
	June .	23 12 29	23 1 45	i	June .	20 3 39	20 9 26
	_ 0	8 6 51	8 14 23		JULY.	19 16 28	19 16 55
	JULY.	23 1 13	22 12 23		Aug	18 5 7	18 0 34
	Aug	21 13 57	21 1 48		SEPT	16 17 51	16 9 16
	SEPT	20 2 41	19 18 2		Oct	∫16 6 85	15 19 44
	Oct.,	19 15 25	19 12 25		0	<b>\21 0 57</b>	81 7 59
	Nov	18 4 9	18 7 34		Nov	14 19 19	14 8 22
	DEC	17 16 53	18 1 58		DEC	14 8 3	13 23 14
150.	Jan	16 5 38	16 18 17	153.	JAN	12 20 48	12 15 55
E.	FEB	14 18 22	15 7 46	Δ.	FEB	11 9 82	11 9 87
22 5 44	MAR.,	16 7 6	16 18 27	21 23 11	Mar.	12 22 16	18 8 12
į	APRIL	14 19 50	15 2 52		APRIL	(11 11 0	11 19 33
1	MAY .	14 8 34	14 9 54		0	26 5 22	26 1 87
1	JUNE .	12 21 18	12 16 39		MAY .	10 23 44	11 9 52
	July.	12 10 2	12 0 8		June .	9 12 28	9 21 54
	Aug.,	10 22 46	10 9 30		JULY.	9 1 12	9 8 1
	SEPT	9 11 30	8 21 36		Aug	7 18 56	7 16 59
	Ост. ,	9 0 14	8 12 49		SEPT	6 2 40	6 1 48
	Nov	7 12 58	7 6 44		Ост	5 15 24	5 11 0
	0	22 7 20	22 8 16		Nov	4 4 8	8 21 21
	DEC	7 1 42	7 2 12		DEC	8 16 52	8 9 2
151.	Jan.,	5 14 26	5 21 31			(0 7 00	1 00 5
D.	FEB	4 3 10	4 15 6	154.	JAN	$\begin{cases} 2 & 5 & 36 \\ 21 & 10 & 20 \end{cases}$	1 22 8
22 11 33	MAR	5 15 54	6 5 53	Ģ.	FEB	(81 18 20	81 12 24
	APRIL	4 4 38	4 17 33	,	res		0.00
	MAY .	( 3 17 22	4 2 36	22 5 O	Mana	$\begin{cases} 2 & 7 & 4 \\ 17 & 1 & 96 \end{cases}$	2 3 49
	0	{18 11 44	18 6 33	5 0	Mar.O	17 1 26	17 10 81
	June .	2 6 6	2 9 56		A 222-	31 19 48	81 19 54
	Terrar	( 1 18 50	1 16 39		APRIL	30 8 32	30 11 55
	JULY.	(31 7 34	30 23 52		MAY . June .	29 21 16	80 8 8
	Aug	29 20 18	29 8 35		JULY.	28 10 0	28 16 58
	SEPT	28 9 2	27 19 39		Aug.	27 22 44	28 5 17
	Oct	27 21 46	27 9 32	,	SEPT.	26 11 28 25 0 12	26 16 28
	0	§11 16 8	11 22 49		Ост.		25 2 50
	Nov	<b>(26 10 30</b>	26 2 9		Nov.	24 12 56	24 18 12
	DEC	25 23 14	25 20 41		DEC.	28 1 40	22 28 50
		· *			EU.	22 14 24	22 10 52

Mear Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 155. F. March. d. h. m. 22 10 48	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEFT OCT NOV DEC	d. h. m.  21	d. h. m. 20 22 19 19 10 18 7 0 6 20 23 9 19 13 1 19 3 51 17 19 12 17 10 28 16 1 5 30 1 33 14 14 43 14 3 24 12 15 19 12 2 37	A.D. 158. B. March. d. h. m. 22 4 15	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV	d. h. m.  { 2 28 57 17 18 19 16 7 3 17 19 47 16 8 31 15 21 15 { 14 9 59 29 4 21 18 22 43 12 11 27 11 0 11 10 12 55 9 1 39 { 8 14 28 28 8 45	d. h. m. 2 16 17 18 6 8 16 17 10 18 2 14 16 9 55 15 17 8 14 0 55 29 12 21 13 10 21 11 22 20 10 13 17 10 6 51 9 1 56 8 21 1 28 3 0
156. E.D. 21 16 37	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT Nov DEC	$\begin{array}{c} 10\ 11\ 57\\ \left\{\begin{array}{cccccccccccccccccccccccccccccccccccc$	10 18 16 8 28 28 24 6 42 9 9 28 7 19 52 7 7 20 5 20 28 5 11 5 4 8 8 18 16 6 2 19 31 2 11 40 $\begin{cases} 1 & 2 & 51\\ 30 & 16 & 38\\ 30 & 4 & 52 \end{cases}$	159. A. 22 10 4	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV O DEC.	7 3 7 5 15 51 7 4 35 5 17 19 5 6 8 { 3 18 47 18 13 9 3 7 81 { 1 20 15 81 8 59 29 21 43 29 10 27 27 23 11 { 12 17 33 27 11 55	7 14 32 6 5 28 7 17 25 6 2 45 5 10 16 3 16 57 18 16 38 2 23 55 1 8 16 30 18 59 29 8 43 29 1 26 27 20 20 12 18 11 27 15 56
157. c. 21 22 26	JAN FEB MAR AFRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	28 9 80 26 22 14 28 10 58 26 28 42 26 12 26 25 1 10 24 13 54 23 2 38 21 15 22 21 4 6 19 16 50 19 5 84	28 15 85 27 0 58 28 9 80 26 17 58 26 8 18 24 14 24 21 8 50 22 19 89 21 18 10 21 7 17 20 0 46 19 16 31	160. g.f. 21 15 58	JAN. FEB. MAR. APRIL MAY O JUNE JULY AUG. SEFT. OCT. NOV. DEC.	24 18 24 25 2 8 28 14 52 28 3 86 { 6 21 58 21 16 20 21 5 4 19 17 48 18 6 32 17 19 16	25 2 48 25 15 58 24 2 5 28 10 7 8 6 17 18 21 17 2 20 28 57 1 19 7 56 1 7 17 50 1 7 6 21 1 5 21 40

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (○ Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 161.		d. h. m.	d. h. m.	A.D. 164.	-	d. h. m.	d. h. m.
E.	JAN	14 9 29	14 10 10	B.A.	JAN	<b>12</b> 0 39	11 20 58
d. h. m.	FEB	12 22 13	13 4 47	March. $d. h. m.$	FEB	10 13 23	10 8 21
21 21 41	MAR	14 10 57	14 21 46	21 15 7	MAR	11 2 7	10 20 26
	APRIL	12-23 41	13 12 10		APRIL	9 14 51	9 9 28
	MAY .	12 12 25	12 23 46		May .	9 3 35	8 23 38
	June .	11. 1 9	11 9 4		June .	7·16 19	7 14 43
	JULY.	10-13 53	10 16 58		JULY.	7 5 3	7 6 11
	Aug	9 2 37	9 0 31		Aug	5 17 47	5 21 22
	SEPT	7 15 21	7 8 48		SEPT	4 6 31	4 11 48
	Ocr	7 4 5	6 18 29		Ост	3 19 15	4 1 15
	0	21 22 27	22 3 51		Nov	2 7 59	2 13 47
	Nov	5 16 49	5 6 5		DEC	ſ 1 20 43	2 1 30
	DEC	5 5 33	4 19 49		DEC	31 9 27	31 12 27
162.	Jan	3 18 17	3 11 29	165.	JAN	29 22 11	29 22 45
D.	FEB	2 7 1	2 4 33	G.	0	(19 16 33	14 2 8
22 3 30	MAR	3 19 45	3 22 6		FEB	23 10 55	28 8 83
	APRIL	2 8 29	2 15 1	21 20 56	MAR	29 23 39	29 18 24
	0	17 2 51	17 1 32		APRIL	23 12 23	28 4 59
	MAY .	( 1 21 13	2 6 21		MAY .	28 1 7	27 17 0
	_	31 9 57	31 19 35		June.	26 13 51	26 6 49
	JUNE.	29 22 41	30 6 43		JULY .	26 2 35	25 22 17
	JULY.	29 11 25	29 16 20		0	( 9 20 57	9 16 3
	Aug	28 0 9	28 1 18		Aug	24 15 19	24 14 48
	SEPT	26 12 53	26 10 27		SEPT	23 4 3	23 7 28
	0	11 7 15	11 4 30		Oct	22 16 47	22 23 30
-	Oct	26 1 37	25 20 23		Nov	21 5 31	21 14 12
	Nov	24 14 21 24 3 5	24 7 26 23 19 42		DEC	20 18 15	21 8 21
	DEC.	24 5 5	25 19 42				
163.	JAN.	22 15 50	22 9 12	166.	JAN	19 7 0	19 14 46
C.	FEB.	21 4 34		F.	0	( 3 1 22	8 1 47
22 9 19	MAR.	22 17 18	1		FEB	17 19 44	18 0 37
	0	6 11 40	6 18 33	22 2 45	MAR	19 8 28	19 9 18
	APRIL	21 6 2	21 7 18		APRIL	17 21 12	17 17 29
	MAY .	20 18 46	20 22 55	[]	MAY .	17 9 56	17 2 4
	JUNE .	. 19 7 30	19 13 33		June .	15 22 40	15 12 2
	JULY .	. 18 20 14	19 2 48		JULY.	∫ 15 11 24	15 0 14
	Aug.	. 17 8 58	17 14 44		0	180 5 46	30 8 42
1	SEPT.		16 1 42		Aug	14 0 8	13 14 58
	0	30 16 4		1	SEPT	12 12 52	12 7 58
	Ост.			1	Oct	12 1 36	12 2 8
	Nov.	1		1	Nov	10 14 20	10 20 18
	DEC.	. 13. 11 54	13 9 47		DEC	10 3 4	10 13 6
	1	1	1	II		1	

Mean Vernal Equinox.	Month.	Mean New Moon.	Frue New Moon. Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 167. E. March. d. h. m. 22 8 84	Jax.	d. h. m.  { 8 15 48  23 10 10  7 4 32  8 17 16  7 6 0  6 18 44  5 7 28  { 4 20 12  19 14 31  3 . 8 56  1 21 40  { 1 10 24  30 28 8  29 11 52  29 0 36	d. h. m. 9	A.D. 170. March. d. h. m. 22. 2. 0	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT O NOV DEC	d. h. m.  5 6 58  8 19 42  5 8 26  3 21 10  { 3 9 54  18 4 16  1 22 38  { 1 11 22  31 0 6  29 12 50  28 1 84  27 14 18  {11 8 40  26 3 2  25 15 46	d. h. m. 5 4 18 3 23 24 5 17 11 4 8 50 3 21 49 17 19 40 2 8 12 1 16 48 31 0 34 29 8 34 27 17 38 27 4 20 11 16 13 25 16 59 25 7 36
168. D.C. 21 14 23	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov	27 13 21 26 2 5 26 14 49 25 3 83 24 16 17 28 5 1 22 17 45 21 6 29 19 19 18 19 7 57 17 20 41 { 2 15 8 17 9 25	28 2 25 26 15 46 27 2 15 25 10 28 24 17 23 23 0 4 22 7 87 20 17 7 19 5 23 18 20 48 17 14 42 2 17 14 17 10 7	171. g. 22 7 49	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT. OCT. Nov. DEC.	18 21 89 17 10 28 16 28 7 15 11 55	22 16 36 21 4 50 20 15 20 19 0 44 3 17 9 57 7 16 19 38 1 15 6 12
169. B. 21 20 12	JAN. FEB. MAR. APRIL MAY. O JUNE. JULY. AUG. SEPT. OCT. NOV.	$ \begin{array}{c cccc} 10 & 15 & 18 \\ 9 & 4 & 2 \\ 8 & 16 & 46 \\ 7 & 5 & 30 \\ 21 & 23 & 52 \end{array} $	6 17 50		JAN. FEB. MAR. O APRII MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	. 12 2 . 12 14 4 27 9 1 11 8 3 . 10 16 1 9 5 . 8 17 4 . 6 2 . 5 19 1 . 5 7 5 . 8 20 4	4 11 20 21 8 12 11 10 0 27 18 25 2 11 2 48 6 10 18 27 0 9 9 33 4 8 23 46 7 12 84 2 6 0 14 10 8 22 1

75		1			1	1	1
Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.		(O Full Ecl.)	(O Full Ecl.)	Equinox.	ALOMOM.		(O Full Ect.)
		, ,			<u>.</u>		
		d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
A.D. 173.	Jan	f 1 22 8	1 19 44	176.	0	(14 7 40	14 0 36
D.		<b>\31 10 52</b>	31 6 47	A.G.	JAN	29 2 2	29 14 28
March.	FEB	•••		March. $d. h. m.$	FEB	27 14 46	28 1 22
d. h. m.		1 23 36	1 18 14	21 12 53	MAR	28 3 30	28 10 9
21 19 27	Mar. O	16 17 58	17 7 47		APRIL	26 16 14	26 17 33
		31 12 20	31 6 27		MAY .	26 4 58	26 0 32
	APRIL	30 1 4	29 19 48		June.	24 17 42	24 8 11
	MAY.	29 13 48	29 10 19	,	0	9 12 4	9 19 18
	June.	28 2 32	28 1 39		JULY.	24 6 26	23 17 35
	July.	27 15 16	27 17 13		Aug	22 19 10	22 5 39
	Aug	26 4 0	26 8 21		SEPT	21 7 54	20 20 46
	O Sept	9 22 22	9 9 18		Ocr	20 20 38	20 14 33
ļ	Ост	24 16 44	24 22 35		Nov	19 9 22	19 9 52
	Nov.	24 5 28 22 18 12	24 11 51 23 0 8		DEC	18' 22 6	19 <b>5 4</b>
	DEC.	22 6 56			0	( 2 16 29	2 11 47
	DE0	22 0 00	22 11 32	177.	JAN	17 10 51	17 22 39
174.	JAN	20 19 41	20 22 3	F.	FEB	15 23 35	16 13 29
C.	FEB	19 8 25	19 7 51	21 18 42	MAR	17 12 19	18 1 15
22 4 4 6	. 0	$\int 6 247$	6 14 8		APRIL	16 1 3	16 10 24
22 1 16	Mar	(20 21 9	20 17 20		MAY .	15 13 47	15 17 <b>4</b> 7
	APRIL	19 9 53	19 3 12		June .	$\int 14 \ 2 \ 31$	14 0 24
	MAY .	18 22 37	18 14 14		0	128 20 53	28 23 9
	JUNE.	17 11 21	17 3 0		July.	13 15 15	13 7 25
	Aug.	17 0 5	16 17 42		Aug	12 3 59	11 15 54
	0	15 12 49 30 7 11	15 9 55		SEPT	10 16 43	10 2 47
	SEPT.	14 1 33	30 0 7 14 2 51		Oct	10 5 27	9 16 39
	Oct.	13 14 17	13 19 34		Nov.	8 18 11	8 9 27
	Nov.	12 3 1	12 11 15		DEC	8 6 55	8 4 19
	DEC	11 15 45	12 1 21		0	(23 1 17	23 3 8
175.	JAN.			178.	JAN	6 19 40	6 23 50
в.	FEB.	10 4 30 8 17 14	10 13 37		FEB	5 8 24	5 18 16
22 7 5	MAR.	10 5 58	9 0 8	22 0 31	MAR	6 21 8	. 7 10 17
' '	APRIL	8 18 42	10 9 9		APRIL	5 9 52	5 23 16
	MAY.	8 7 26	8 17 17 8 1 21		MAY.	4 22 36	5 9 26
	JUNE.	6 20 10	6 10 22		JUNE.	$\begin{cases} 3 & 11 & 20 \\ 7 & 7 & 12 \end{cases}$	3 17 29
	JULY.	6 8 54	5 21 17		O T	18 5 42	17 28 47
	Aug.	4 21 38	4 10 45		JULY.	8 0 4	3 0 33
4	SEPT	3 10 22	3 2 46		Aug	$\begin{cases} 1 & 12 & 48 \\ 31 & 1 & 32 \end{cases}$	1 7 39 30 15 54
	Ост	2 23 6	2 20 39		SEPT	29 14 16	29 2 4
	Nov	1 11 50	1 15 11		Oct	29 8 0	28 14 48
	Dec	1 0 34	1 9 1		Nov.	27 15 44	27 5 58
	DEC	(30 13 18	31 1 0		DEC .	27 4 28	26 28 28
1	<u> </u>	<u> </u>		ł			

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. O Full Ecl.)
A.D.		d. h. m.	d. h. m.	A.D. 182.		d. h. m.	d. h. m.
179.	T	25 17 12	25 17 54	G.	JAN	22 8 22	22 5 33
March.	JAN.		24 12 10	March.	FEB	20 21 6	20 16 30
d. h. m.	FEB.		26 4 52	d. h. m. 21, 23 46	MAR.	22 9 50	22 3 59
22 6 20	MAR.	1 ' '	24 19 9	ZE, 20 ±0	APRIL	20 22 34	20 16 27
	APRIL		24 6 49		MAY.	20 11 18	20 6 14
1	MAY.			'	JUNE .	19 0 2	18 21 9
	June .	22 8 52	22 16 18			18 12 46	18 12 47
	July.	21 21 36	22 0 30		JULY .	17 1 30	17 4 24
1	Aug	20 10 20	20 8 28		Aug	15 14 14	15 19 25
	SEPT	18 23 4	18 17 6		SEPT		15 9 29
	Ocr	18 11 48	18 3 4		Oct.		13 22 29
	0	5 2 6 10	2 11 52		Nov.	13 15 42	1
,	Nov	17 0 32	16 14 46		DEC	13 4 26	13 10 24
	DEC	16 13 16	16 4 21				
				183.	JAN	11 17 10	11 21 17
180.	JAN	15 2 1	14 19 30	F	FEB	(10 5 54	10 7 15
С.В.	FEB	13 14 45	13 12 12		0	25 0 16	25 9 33
21 12 9	MAR	14 3 29	14 5 13	22 5 35	MAR	11 18 39	11 16 37
1	APRIL	(12 16 13	12 21 47		APRIL	10 7 23	10 1 57
	0	27 10 35	27 9 8		MAY .	9 20 7	9 12 3
i	MAY.	12 4 57	12 13 1		JUNE .	8 8 51	7 23 45
	June .	10 17 41	11 2 23		JULY.	7 21 35	7 13 27
	JULY .	10 6 25	10 13 51	11	Aug.	(6 10 19	6 5 3
	Aug.	8 19 9	8 23 55		0	21 4 41	
ľ	SEPT.		7 9 28	1	SEPT.	l"	4 21 56
İ	Ост.	(6 20 37	6 19 0		Oct.	4 11 47	4 15 9
	0	21 14 59	21 12 11		Nov.		1
	Nov.	\ F 0.01	5 5 14		DEC.	2 13 15	
	DEC.	4 22 5	4 16 20		DEC.		
							9 1 12 4
181.	JAN.	8 10 49	8 4 21	184.	JAN.	1 1 5	1>
Α.	FEB.	. 1 23 33	1 17 22	E.D.	0	(80 14 4	
21 17 58	1	0 10 17	8 7 25		0	1)	5 14 9 18
21 1. 00	APRII		1 22 21		FEB.	, \( \) 29 8 2	
	0	16 19 28	17 2 6	21 11 24	MAR.		
,		(1 13 45			APRII	1.	I
1	MAY	31 2 29		II.	MAY		
	June		29 20 11	1	June		
	JULY		29 9 50	.	July		7 25 7 10
	1 1.1	25 40 44	27 22 19	II.		9 13 2	
	Aug.	20 - 0-		11	Aug.	, 24 7 5	1 23 22 0
	SEPT.	(10 28 47		11	SEPT.	. 22 20 8	
1 '	0	. 25 18		11	Ocr,	. 22 9 1	1
	Oct.	`			Nov.	. 20 22	8 21 4 20
	Nov.				DEC.	. 20 10 4	7 20 21 28
ł.	DEC.	20 19 9/	20 10 90	´			
1		1	1				

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Mean Vernal	Month.	Mean New Moon.	True New	Mean		Mean New	True New
Equinox.	MOHOL.	(O Full Ecl.)	Moon. (O Full Ecl.)	Vernal Equinox.	Month.	Moon.	Moon.
						ļ	
A.D.		d. h. m.	d. h. m.	A.D. 188.		d. h. m.	d. h. m.
185.	Jan	18 23 32	19 12 16	G.F.	JAN	16-14-42	16 12 31
March.	0	§ 2 17 54	2 12 3	March. $d. h. m.$	FEB	15 3 26	15 6 53
d $h$ . $m$ .	FEB	17 12 16	18 0 20	21 10 39	MAR	15 16 10	16 0 21
21 17 13	MAR	<b>1</b> 9 1 0	19 9 59		APRIL	14 4 54	14 15 49
	APRIL	17 13 44	17 17 49		MAY .	(13 17 38	14 4 46
	MAY.	17 2 28	17 0 47		0	28 12 0	28 2 43
	June .	15, 15 12	15 7 52		June .	12 6 22	12 15 20
	July.	(15 . 3 56	14 16 15		JULY.	11 19 6	
	0	29 22 18	30 4 46				
	Aug	13 16 40	13 2 57		Aug	10 7 50	10 8 21
	SEPT	12 .5 24	11 16 36		SEPT	8 20 31	8 16 46
	Ост			ļ	Oct.	8 9 18	8 2 10
	Nov.	11 18 8 10 6 52	11 9 14	1	Nov.,	$\begin{cases} 6 22 & 2 \\ 2 & 3 \end{cases}$	6 13 4
*			10 4 3		_ 0	(21 16 24	22 0 30
	DEC	9 19 36	9 23 36		DEC	6 10 46	6 <b>1</b> 39
100	T	0, 0 04					
186. в.	JAN.,	8 8 21	8 18 12	189.	JAN	4 23 30	4 15 58
	FEB.,	6 21 5	7 10 25	E.	FEB	3 12 14	3 7 42
21 23 2	MAR.	8 9 49	8 23 38	21 16 28	Mar.	5 0 59	5 0 20
	APRIL	6 22 33	7 9 56		APRIL	3 13 43	3 17 2
	MAY .	6 11 17	6 18 0		MAY.	( 3 2 27	3 8 56
	JUNE.	5 0 1	5 0 50		0	17 20 49	17 16 30
	JULY,	4 12 45	4 7 32		JUNE.		
	Aug	3 1 29	2 15 13		JUNE.		1 23 17
	SEPT.,	1 14 13	∫ 1 0 55	1	July.	13	1 11 48
	00=	$\int 1 257$	\30 13 20	1	A	(30 16 39	30 22 43
	Ост	<b>\</b> 80 15 41	30 4 45		Aug	29 5 23	29 8 39
	Nov	29 4 25	28 22 44		SEPT	27 18 7	27 18 21
	0	(13 22 47	14 2 12		Ост	27 6 51	27 4 25
	DEC	28 17 9	28 18 4		Nov	25 19 35	25 15 8
1 1					DEC	<b>2</b> 5 8 19	25 2 38
187.	JAN	27 5 53	27 13 6			,	
A.	FEB	25 18 37	26 6 21	190.	JAN	23 21 3	23 14 57
22 4 51	MAR	27 7 21	27 20 50	D.	FEB	22 9 47	22 4 10
	APRIL	25 20 5	26 8 18	21 22 17	MAR	23 22 31	23 18 22
	MAY.	25 8 49	25 17 18		0	7 16 53	8 2 10
	0	(9 3 11	8 19 53		APRIL	22 11 15	22 9 26
ļ	June .	23 21 33	24 0 45		MAY.	21 23 59	22 0 54
	JULY.	23 10 17	23 7 50		June,	20 12 43	20 16 9
	Aug.	21 23 1	21 15 32		JULY.	20 1 27	20 6 36
	SEPT.	20.11 45	20 0 48		Aug.	18 14 11	18 19 55
	Ост.	20 0 29	19 12 16		SEPT.	17 2 55	
	Nov.	18 13 13	18 2 13		Oct.		
	0	( 3 7 35			Nov.	16 15 39	16 19 44
	DEC.	18 1 57	3 16 17			15, 4 28	15 6 54
	DEU.	(10 1 04	17 18 34	1	DEC	14,17 7	14 17 47
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Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. Tull Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. OFull Ecl.)
A.D. 191. c. March. d. h. m. 22 4 6	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT NOV DEC		d. h. m.  13 4 31 11 15 10 13 2 3 28 15 21 11 13 40 11 2 32 9 16 48 9 8 11 8 0 4 6 15 43 20 17 24 6 6 36 4 20 28 4 8 59	A.D. 194. F. March. d. h. m. 21 21 32	JAN  O FEB MAR APRIL MAY . JUNE . JULY . O AUG SEPT OCT	$\begin{array}{c} *\\ d.\ h.\ m.\\ \begin{cases} 9\ 21\ 2\\ 24\ 15\ 24\\ 8\ 9\ 46\\ 9\ 22\ 30\\ 8\ 11\ 14\\ 7\ 23\ 58\\ 6\ 12\ 42\\ \begin{cases} 6\ 1\ 26\\ 20\ 19\ 48\\ 4\ 14\ 10\\ 3\ 2\ 54\\ 2\ 15\ 38\\ \begin{cases} 1\ 4\ 22\\ 30\ 17\ 6\\ \end{array} \end{array}$	d. h. m.  10 9 22 24 8 51 8 22 46 10 9 28 8 17 58 8 1 7 6 7 55 5 15 31 21 2 18 4 0 58 2 13 8 { 2 4 25 31 22 23 30 17 50
192. B.A.	JAN FEB	. 2 14 41 1 3 25 1 16 9	2 20 26 1 6 42 1 16 6	195. E.	DEC O JAN FEB	$ \begin{vmatrix} 30 & 5 & 50 \\ 14 & 0 & 13 \\ 28 & 18 & 35 \\ 27 & 7 & 19 \end{vmatrix} $	30 13 7 13 20 31 29 6 39 27 21 20
21 9 55	MAR. O  APRIL MAY . JUNE . JULY . AUG O SEPT OCT Nov DEC	16 10 81 31 4 58 29 17 87 29 6 21 27 19 5 27 7 49 25 20 88 ( 9 14 55 24 9 17 28 22 1 22 10 45 21 23 29	16 21 28 81 1 6 29 10 29 28 21 7 27 9 41 27 0 24 25 16 54 9 8 18 24 10 18 24 3 35 22 19 42 22 10 2	22 8 21	MAR APRIL MAY . JUNE . O . JULY . AUG SEPT OCT NOV DEC.	28 11 48 22 0 27 21 13 11 20 1 55 19 14 89	3 12 3
193. G. 21 15 44	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	15 5 21 13 18 5 13 6 49 11 19 33	11 23 10	p.c. 21 9 10	FEB.	. 16 16 7 . 17 4 51 . 15 17 33 . 15 6 18 . 18 19 3 . 18 19 3 . 18 7 47 . 11 20 8 . 10 9 13 . 9 21 5 . 8 10 4	17 1 48 17 17 39 16 6 33 15 16 40 14 0 49 28 6 21 7 18 8 8 11 15 28 10 0 1 9 10 25 7 23 10

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (○ Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 197.		d, h. m.	d. h. m.	A.D. 200.		d. h. m.	d. h. m.
в.	JAN	. 6 12 12	6 7 25	F.E.	JAN	4 3 22	4 3 38
$\begin{array}{c c} \text{March.} \\ d. \ h. \ m. \end{array}$	FEB	5 0 56	5 1 31	March. $d. h. m.$	FEB	2 16 6	2 14 7
21 14 59	MAR	6 13 40	6 19 24	21 8 25	MAR	3 4 50	3 0 33
	APRIL	5 2 24	5 11 51		APRIL	1 17 34	f 1 11 27
	MAY .	4 15 8	5 2 3		3.0	ſ 1 6 18	130 23 24
	JUNE .	3 3 52	3 13 49		MAY.	l 30 19 2	30 12 48
	JULY.	2 16 36	2 23 33		June .	20 7 46	29 3 38
		1 5 20	188		July.	28 20 30	28 19 28
	Aug	30 18 4	30 16 30		Aug	27 9 14	27 11 83
	SEPT	29 6 48	29 1 32		SEPT	25 21 58	26 8 10
	Ост	28 19 32	28 11 47		Oct	25 10 42	25 17 49
	0	∫12 13 54	12 19 59		Nov	23 23 26	24 7 14
	Nov	27 8 16	26 23 31		DEC	23 12 10	28 19 18
	DEC	26 21 0	26 12 53				
				201.	JAN	22 0 54	22 6 <b>8</b>
198.	JAN	25 9 44	25 3 43	D.	FEB	20 13 38	20 15 40
Α.	Fев	23 22 28	23 19 41		0	7 8 0	7 16 50
21 20 48	MAR	25 11 12	25 12 11	21 14 14	MAR	22 2 22	22 0 88
Į	APRIL	23 23 56	24 4 26		APRIL	20 15 6	20 9 28
1	0	8 18 18	8 16 38		MAY .	20 3 50	19 19 5
	MAY .	23 12 40	23 19 37		JUNE .	18 16 31	18 6 80
	June .	22 1 24	22 9 9		July.	18 5 18	17 20 8
	JULY .	21 14 8	21 21 1		Aug	∫16 18 2	16 11 54
	AUG	20 2 52	20 7 36		0	81 12 24	81 8 18
	SEPT	18 15 36	18 17 35		SEPT	<b>1</b> 5 6 46	15 5 11
	Oct	18 4 20	18 3 33		Oct	14 19 80	14 22 55
	0	1 22 42	1 19 58		Nov	13 8 14	13 15 57
	Nov.	16 17 4	16 14 7		DEC	12 20 58	13 7 24
	DEC	16 5 48	16 1 13	,			
1.00	_	11.40.55		202.	JAN	11 9 48	11 20 45
199. G.	JAN.	14 18 33	14 12 59	C.	FEB	9 22 27	10 7 52
	FEB	13 7 17	13 1 28		0	21 16 49	24 16 42
22 2 37	MAR	14 20 1	14 14 53	21 20 3	MAR	11 11 11	11 17 6
	APRIL	13 8 45	13 5 16		APRIL	9 23 55	10 1 1
1	M	28 3 7	28 9 50		MAY .	9 12 39	9 8 27
	MAY .	12 21 29	12 20 25		JUNE .	8 1 23	7 16 27
	JUNE .	11 10 13	11 11 49		JULY.	7 14 7	7 2 5
	JULY .	10 22 57	11 2 51		Aug	$\int 6 251$	5 14 14
	Aug	9 11 41	9 16 59		0	20 21 13	21 0 12
	SEPT.		8 6 3		SEPT.	4 15 35	4 5 18
	OCT.	11			Oct. ,	4 4 19	3 22 42
	Nov.				Nov	2 17 3	2 17 38
	DEC.		6 5 44		DEC	2 5 47	2 12 29
	DEU.	5. 14 37	5 16 52			81 18 31	•••
1		1.		H			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 203.	JAN	d. h. m.	d. h. m.	A.D. 206. E. March.	Jan	d. h. m. 26 22 26	d. h. m. 26 20 18
March.		(30 7 16)	30 20 34 13 19 8	d. h. m. 21 19 18	FEB.	25 11 10	25 14 13
d. h. m.	O Feb	28 20 0	(1 8 28	21 19 10	MAR APRIL	26 23 54 25 12 38	27 7 20   25 22 40
22 1 52	MAR	30 8 44	30 17 51		MAY.	25 1 22	25 11 40
	APRIL	28 21 28	29 1 28		0	(8 19 44	8 9 46
	MAY.	28 10 12	28 8 13		June .	23 14 6	23 22 27
	June .	26 22 56	26 15 15		July.	23 2 50	23 7 40
	JULY.	26 11 40	25 23 39		Aug	21 15 34	21 16 15
	0	10 6 2	10 12 5		SEPT	20 4 18	20 1 5
	Aug	25 0 24	24 10 26		Oct	19 17 2	19 10 49
	SEPT	23 13 8	23 0 15 22 17 2		Nov	18 5 46	17 21 51
	Nov.	21 14 36	21 12 0		O Dec	3 0 8 17 18 30	3 8 47 17 10 21
	DEC.	21 3 20	21 7 36		DE0	(1. 10 00	1. 10 21
004		10.10		207.	Jan. ,	16 7 14	16 0 16
204.	JAN FEB	19 16 5	20 2 9	D.	FEB.	14 19 58	14 15 27
21 7 41	MAR.	18 4 49 18 17 32	18 18 17 19 7 20	22 1 7	MAR.	16 8 42	16 7 30
	APRIL	17 6 16	17 17 29		APRIL	14 21 26	14 23 46
	MAY.	16 19 0	17 1 26		MAY .	(14 10 10	14 15 28
	June .	15 7 44	15 8 15		0	29 4 32	8 23 53
	JULY .	14 20 28	14 15 5		June .	12 22 54	13 5 55
	Aug	13 9 12	12 22 57		JULY .	12 11 38	12 18 46
	SEPT	11 21 56	11 8 51		Aug	11 0 22	11 6 10
	Oct	11 10 40	10 21 25		SEPT.	9 13 6	9 16 39 9 2 52
}	Nov	9 23 24	9 12 54		Nov.	9 1 50 7 14 34	9 2 52 7 13 15
	DEC	9 12 8	9 6 47		DEC.	7 3 18	7 0 4
	0	24 6 80	24 11 8		DEC	. 0 20	
205.	JAN	8 0 53	8 1 56	208.	JAN	5 16 3	5 11 24
F.	FEB	6 13 37	6 20 44	C.B.	FEB.	4 4 47	3 23 17
21 18 30	MAR.	8 2 21 6 15 5	8 13 46 7 4 4	21 6 56	MAR.	4 17 31	4 11 54
	APRIL MAY.	6 3 49	6 15 30		APRIL	3 6 15	3 1 29
	JUNE .	(4 16 33	5 0 34		0	18 0 37	18 9 49
	0	19 10 55	19 2 30		MAY .	2 18 59	2 16 6
	JULY.	4 5 17	4 8 13		JUNE .	1 7 43	1 7 21
	Aug	2 18 1	§ 2 15 44			(30 20 27	30 22 42
	Sept	∫ 1 6 45	\\ 181 23 86		JULY .	30 9 11 28 21 55	30 13 30 29 3 24
	SEPT	30 19 29	80 9 9	}	SEPT.	27 10 39	27 16 17
	Oct	30 8 13	29 20 45		Oct.	26 23 23	27 4 21
	Nov	28 20 57	28 10 43		Nov.	25 12 7	25 15 49
	DEC.	18 15 19	14 1 1 28 2 46		DEC	25 0 51	25 2 46
	J. 1028.0.	(20 9 41	20 2 40			*	

A.D.		(O Full Ecl.)	(O Full Ecl.)	Vernal Equinox.	Month.	(O Full Ecl.)	True New Moon. (O Full Ecl.)
209. A. March.	Jan. • Feb	d. h. m. 23 13 35 22 2 19	d. h. m. 23 13 14 21 23 25	A.D. 212. E.D.	Jan	d. h. m. 21 4 46 ( 4 23 8	d. h. m. 21 17 88 4 17 1
u. 11. 111.	Mar.	23 15 3	23 9 44	March.	FEB	19 17 30	20 6 56
21 12 10 1	0	(7 9 25	7 22 45	d. h. m. 21 6 11	MAR.	20 6 13	20 17 23
1 1.	APRIL	22 3 47	21 20 48		APRIL	18 18 57	19 1 38
1 1:	MAY .	21 16 31	21 9 15		MAY .	18 7 41	18 8 36
;	June .	20 5 15	19 23 18		June .	16 20 25	16 15 19
	JULY.	19 17 59	19 14 46		JULY.	(16 9 9	15 22 55
1 1.	Aυg	18 6 43	18 7 0		0	(31 3 31	81 9 21
	Sept	16 19 27	16 23 13		Aug	14 21 53	14 8 28
	0	§ 1 13 49	1 1 37		SEPT	13 10 37	12 20 48
1 1	Ост	(16 8 11	16 14 42		Ocr	12 23 21	12 12 13
i -	Nov.	14 20 55	15 4 58		Nov	11 12 5	11 6 17
1 1	DEC	14 9 39	14 17 49		DEC	11 0 49	11 <b>1 4</b> 8
210.	Jan	12 22 24	13 5 14	213.	Jan	( 9 13 34	9 21 4
	FEB	11 11 8	11 15 14	С.	0	24 7 56	21 5 8
1 1	Mar	(12 23 52	13 0 12		FEB	8 2 18	8 14 28
	0	27 18 14	28 4 28	21 12 0	MAR	9 15 2	10 5 1
	APRIL	11 12 36	11 8 44		APRIL	8 3 46	8 16 29
	MAY .	11 1 20	10 17 41		MAY.	7 16 30	8 1 22
	JUNE .	9 14 4	9 4 0		JUNE.	6 5 14	6 8 88
1	JULY.	9 2 48	8 16 24		July .	5 17 58	5 15 28
1	AυG	7 15 32	7 7 13		Aug	(20 12 20 4 6 42	20 12 21 8 22 41
	SEPT	6 4 16	6 0 0		SEPT	2 19 26	2 7 85
	0	20 22 38	20 16 37		OBL I	(2 8 10	1 18 51
1	Oct	5 17 0 4 5 44	5 17 51 4 11 38		Ocr	81 20 54	81 8 57
1	DEC	3 18 28	4 4 8		Nov	80 9 88	80 1 41
	DE0	0 10 20	<b>11</b>		DEC	29 22 22	29 20 17
011	T	(2 7 13	2 18 39	214.		(18 16 44	18 20 58
211. F.	JAN	(31 19 57		в.	JAN	28 11 6	28 15 17
	FEB		1 6 49		FEB.	26 28 50	27 9 18
22 0 23	Mar	§ 2 8 41	2 16 49	21 17 49	MAR.	28 12 35	29 0 58
		(31 21 25	(117		APRIL	27 1 19	27 18 42
1	APRIL	30 10 9	130 8 30		MAY .	26 14 8	26 28 58
1	MAY .	29 22 53	29 15 58		JUNE .	25 2 47	25 8 12
1	JUNE.	28 11 37	28 0 35		0	( 9 21 9	9 12 58
1 1	JULY.	28 0 21	27 11 22		JULY.	24 15 81	24 15 41
1	AUG SEPT	26 13 5 25 1 49	26 0 59		Aug	23 4 15	22 28 26
1	Oct	25 1 49 24 14 33	24 17 26 24 11 58		SEPT	21 16 59	21 8 19
	Nov.	23 3 17	24 11 58		Ocr	21 5 48	20 18 56
1 .	DEC.	22 16 1	23 1 30		Nov	19 18 27	19 7 44
		1	_0 1 00		DEC	19 7 11	18 22 41

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (○ Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 215. A. March. d. h. m. 21 23 38	JAN FEB MAR APRIL MAY . JULY . AUG SEPT OCT Nov DEC	d. h. m. 17 19 55 16 8 39 17 21 23 16 10 7 15 22 51 14 11 35 14 0 19 12 13 3 11 1 47 10 14 31 9 3 15 8 15 59	d. h. m.  17 15 28  16 9 0  18 2 27  16 18 39  16 8 50  14 20 46  14 6 50  12 15 51  11 0 41  10 10 5  8 20 34  8 8 19	A.D. 218. D. March. d. h. m. 21 17 4	JAN FEB MAR . APRIL MAY . JUNE . JULY . AUG SEPT OCT Nov DEC	d. h. m.  14 11 5 12 23 49 14 12 38 18 1 17 12 14 1 11 2 45 10 15 29 9 4 13 7 16 57 7 5 41 5 18 25 5 7 9	d. h. m.  14 12 27  12 22 33  14 8 28  12 18 48  12 6 16  10 19 22  10 10 10  9 2 15  7 18 48  7 11 2  6 2 13  5 15 58
216. G.F. 21 5 27	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT O NOV DEC	7 4 44 5 17 28 6 6 12 4 18 56 { 4 7 40 19 2 2 2 20 24 { 2 9 8 31 21 52 30 10 36 28 23 20 28 12 4 { 12 6 26 26 13 32	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	219. c. 21 22 58	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV		26 12 36 26 6 48 25 0 15
217. E. 21 11 16	JAN FEB MAR APRIL O MAY JUNE JULY AUG. SEPT. OCT. O Nov. DEC.	28 16 28 ( 8 10 5. ( 28 5 14 21 17 57 21 6 43 19 19 28 18 8 8 17 20 58 ( 1 15 14 16 9 8 17 20 28	28 9 27 24 22 15 28 12 5 1 8 17 22 8 28 2 54 7 21 18 16 1 21 9 84 6 20 0 12 9 18 18 54 8 18 2 38 6 1 4 31 7 16 14 34		APRIL MAY JUNE JULY AUG. O SEPT. OCT. Nov.	20 7 89 19 20 23 18 9 7 17 21 51 16 10 88 31 4 57	21 16 18 7 0 0 5 22 1 7 20 8 42 1 19 15 52 17 28 41 17 9 15 5 15 21 27 7 31 8 8 9 14 12 37 8 14 6 21 7 18 1 32

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ect.)	True New Moon. (O Full Ect.)	Mesn Vernal Equinox	Month	Mean New Moon 4 - Full Ect :	True Now Month
A.D. 221. G. March. d. h. m. 21 10 81	JAN O . MAR AFRIL . MAY JUNE JULY . AUG O OCT Nov	d. h. m.  11 2 15 { 9 14 59 24 9 21 11 8 48 9 16 27 9 5 11 7 17 55 7 6 89 { 5 19 28 20 18 45 4 8 7 - 8 20 51 2 9 85	d, h, m,  11 18 59 10 4 41 24 8 47 11 16 25 10 1 35 9 8 59 7 15 39 6 22 40 5 7 10 20 19 28 8 18 5 8 8 4 2 0 57	A.D. 224. Dat. March. d, h. m. 21 8 57	JAN FRH MAR APRIL MAY . JUNE . JULY . AUG BEFT OCT NOV	d A. m  n 17 25  7 6 9  7 18 64  6 7 87  5 20 21  1 4 9 5  1 10 81  1 10 83  1 11 28 17  80 12 1  80 0 45	d A m 4 10 57 7 21 56 7 21 56 7 22 25 6 14 12 6 5 24 4 16 27 19 16 53 4 5 24 2 15 12 2 15 12 2 15 12 29 19 25 29 19 25
222. r.	DEC JAN FEB	\begin{cases} 1 & 22 & 19 \\ 81 & 11 & 8 \\ 29 & 28 & 48 \\ 28 & 12 & 82 \end{cases}	1 19 57 81 15 80 80 9 58	225.	Dre .	118 7 51 128 2 18 26 14 58	18 17 2 27 10 1 26 8 80
21 16 20	MAR APRIL MAY. JUNE. JULY. AUG SEPT	80 1 16 28 14 0 28 2 44 26 15 28 28 4 12 24 16 56 28 5 40	1 1 56 80 14 52 29 0 54 28 8 50 26 15 45 25 22 44 24 6 50 22 16 57	и. 131 946	Fan	25 B 42 26 16 26 25 5 10 24 17 54 4 H 12 16 23 6 B 24 19 22 21 N 6	21 (23 4) 26 14 24 25 6 (25) 24 (21 56) 7 16 23 12 33 23 1 46 21 18 45
223. r. 21 22 9	Oct Nov DEC  O JAN FEE MAR	22 18 24 21 7 8 20 19 52 4 14 14 19 8 88 17 21 20 19 10 4 17 22 48	22 5 41 20 21 9 20 14 52 4 20 1 19 9 41 18 4 11 19 20 59	226. *.	Harr Oct Nov Dsc Jan Fun	10 90 60 10 9 84 17 23 18 17 11 2 15 28 46 14 12 80	20 0 4% 19 11 29 17 29 11 17 9 2 15 20 5 14 7 20
	MAY. JUNM. O JULY. AUG. SEPT. OCT. NOV. DEC.	17 11 82 {16 0 16 80 18 88 15 18 0 14 1 44 12 14 28 12 8 12 10 15 56 {10 4 40	18 11 10 17 22 87 16 7 49 80 9 10 15 15 48 18 28 28 12 7 47 11 17 88 10 5 22 9 19 12	21 15 25	MAR APRIL. MAY JUNE JULY AUG SEPT OCT	16 1 14 14 18 54 14 3 42 13 15 26 12 4 10 10 16 54 9 5 86 8 18 32 7 7 6	15 19 81 14 5 81 18 22 40 12 18 45 12 5 15 10 20 20 9 0 20 7 18 2
Philipping and philipping propriate and the control of the control			9 19 12		Nov Dec	7 7 6 6 19 50	-

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Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Fol.)
A.D. 227. G.	Jan	d. h. m. 5 8 35	d. h. m. 5 11 40	A.D.	JAN	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	d. h. m. 2 9 38
March. d. h. m. 21 21 24	FEB MAR	3 21 19 5 10 3	3 21 51 5 7 33	230. c. March.	<b>Гев.</b> .	15 6 51	1 1 45 15 1 4
	APRIL O MAY.	$ \begin{cases} 3 & 22 & 47 \\ 18 & 17 & 9 \\ 3 & 11 & 31 \end{cases} $	3 17 19 19 6 1 3 3 53	d. h. m. 21 14 50	Mar	$ \begin{cases} 2 & 1 & 13 \\ 31 & 13 & 57 \\ 30 & 2 & 41 \end{cases} $	2 14 58  5 1 1 7
	June .	2 0 15	1 15 57 1 5 53		MAY .	29 15 25	\\ 30 9 13 \\ 29 16 3
	July .	\\ 81 \ 1 \ 44 \\ 29 \ 14 \ 28 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	30 21 28 29 14 5		JUNE. JULY.	28 4 9 27 16 53	27 22 46 27 6 27
	SEPT	28 3 12 (12 21 34	28 6 51 12 10 2		O Aug	$\begin{cases} 11 & 11 & 15 \\ 26 & 5 & 37 \end{cases}$	11 16 32 25 16 7
	Oct Nov	$\begin{cases} 27 & 15 & 56 \\ 26 & 4 & 40 \end{cases}$	27 22 54 26 13 37		SEPT Oct	24 18 21 24 7 5	24 4 47 23 20 10
	DEC.	25 17 24	26 2 39		Nov Dec	22 19 49 22 8 33	22 14 17 22 9 44
228. F.E.	JAN FEB	24 6 8 22 18 52	24 13 57 22 23 38	231. B.	Jan	20 21 18	21 4 52 4 13 43
21 3 13	Mar.	23 7 36	23 8 11 7 11 25	21 20 39	FEB MAR	19 10 2 20 22 46	19 22 9 21 12 32
	APRIL MAY.	21 20 20 21 9 4	21 16 17 21 0 52		APRIL MAY .	19 11 30	19 23 53 19 8 45
	JUNE . JULY .	19 21 48 19 10 32	19 10 55 18 23 16		June . July .	17 12 58 17 1 42	
	Aug Sept	17 28 16 16 12 0	17 14 11 16 7 16		Aug	\\ 15 14 26	15 6 30
	0	∫ 1 6 22	1 1 4		SEPT	14 3 10 13 15 54	13 15 39 13 3 7
	Nov.	14 13 28	16 1 33 14 19 45		Nov Dec	12 4 38 11 17 22	11 17 16 11 9 54
	DEC	14 2 12	14 12 85	232.	JAN	$\begin{cases} 10 & 6 & 6 \\ 25 & 0 & 27 \end{cases}$	
229. D.	JAN Frb	12 14 56	13 3 8		FEB	8 18 50	8 22 51
21 9 2	MAR	12 16 24	13 0 54	21 2 28	MAR	9 7 84 7 20 18	
	APRIL	11 5 8	11 8 54		MAY.	7 9 2	7 20 48
	MAY . June .	9 6 36	10 16 0 8 23 16		June .	5 21 46	:
	JULY.	8 19 20	8 7 47		July.	$ \begin{cases} 5 & 10 & 80 \\ 20 & 4 & 52 \end{cases} $	
	Aug.	7 8 4	6 18 86		Aug	20 4 52 8 23 14	1
	SEPT	5 20 48	5 8 21		SEPT.	2 11 58	1 1 1 1
	Oct Nov	5 9 32 3 22 16	5 1 0 3 19 46		Oct		
	DEC	3 11 0	3 15 11		Nov	30 2 10	1
			1		DEC	29 14 54	29 7 2

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 233.		d. h. m.	d. h. m.	A.D. 236.	••	d. h. m.	d. h. m.
F.	Jan	28 3 39	27 23 17	C.B.	JAN	25 18 49	25 21 11
March.	FEB	26 16 23	26 16 23	March.	FEB	24 7 33	24 6 52
d. h. m. 21 8 17	MAR.	28 5 7	28 9 25	d. h. m. 21 143	MAR.	24 20 17	24 16 17
1 21 0 1.	APRIL	26 17 51	27 1 23		APRIL	23 9 1	23 2 6
	MAY.	26 6 35	26 15 34		0	r 8 3 23	8 14 56
	JUNE .	24 19 19	25 3 44		MAY.	22 21 45	22 13 8
	JULY.	24 8 3	24 14 12		June .	21 10 29	21 1 59
	Aug.	22 20 47	22 23 40		JULY .	20 23 13	20 16 39
	SEPT.	21 9 31	21 8 59		Aug	19 11 57	19 9 10
		20 22 15	20 18 48		SEPT.	18 0 41	18 2 12
1	Oct	19 10 59	19 5 28		Oct.	17 13 25	17 18 59
	Nov	18 23 43	18 17 7		Nov.	16 2 9	16 10 40
	DEC	10 25 45	10 11		DEC.	15 14 53	16 0 42
					DEG.	10 14 00	10 0 42
234.	JAN	17 12 28	17 5 51		_		
E.	FEB	16 1 12	15 19 36	237.	JAN	14 3 37	14 12 50
21 14 6	Mar	17 13 56	17 10 23	Α.	FEB	12 16 21	12 23 11
	APRIL	16 2 40	16 1 52	21 7 32	Mar	14 5 5	14 8 3
	MAY.	$\int 15 \ 15 \ 24$	15 17 31		APRIL	12 17 49	12 16 5
	0	30 9 46	30 7 35		MAY .	12 6 33	12 0 7
	JUNE.	14 4 8	14 8 41		June.	10 19 17	10 9 11
ţ	July.	13 16 52	13 22 46		JULY.	10 8 1	9 20 13
	Aug	12 5 36	12 11 35		Aug	8 20 45	8 9 53
	SEPT	10 18 20	10 23 19		SEPT	7 9 29	7 2 5
	Oct	10 7 4	10 10 23		0	122 3 51	22 0 34
	Nov	8 19 48	8 21 15		Oct	6 22 13	6 20 6
	0	23 14 10	23 11 47		Nov	5 10 57	5 14 <b>4</b> 8
	DEC	8 8 32	8 8 5		DEC	4 28 41	5 8 82
235.	JAN	6 21 16	6 18 58	238.	JAN.	3 12 26	4 0 24
D.	FEB.	5 10 0	5 5 56	G.	FEB.	2 1 10	2 18 41
21 19 55	MAR.	6 22 44	6 17 19	21 13 21	MAR.	6 3 13 54	4 0 23
	APRIL	5 11 28	5 5 30	21 20 21	0	18 8 16	18 7 7
	MAY.	( 5 0 12	4 18 50		APRIL	2 2 38	2 8 59
	0	19 18 34	i			( 1 15 22	1 16 17
	June .	3 12 56	3 9 22		MAY .	81 4 6	30 23 15
	JULY.	3 1 40	3 0 45		JUNE .	29 16 50	29 6 57
		1 14 24			JULY.	29 5 34	28 16 80
	Aug	31 3 8	1		Aug.	27 18 18	27 4 47
	SEPT	29 15 52	29 21 50		0	(11 12 40	11 16 10
	Oct	29 4 36	29 11 9		SEPT	$\{26 \ 7 \ 2$	25 20 7
,	0	(12 22 58	12 12 39		Ocr	25 19 46	25 14 5
	Nov.	27 17 20	27 23 25		Nov	24 8 30	24 9 28
	DEC	27 6 4	1	1	DEC	23 21 14	24 4 89
	ſ			H		,	

Mean Vernal Equinox.	Month.	Mean New Moon. Full Ecl.)	True New Moon. Tull Ecl.)	Mean Vernal Equinox.	Month.		rue New Moon. Full Ecl.)
A.D. 239. F. March. d. h. m. 21 19 10	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG	d. h. m. 22 9 59 20 22 48 7 17 5 22 11 27 21 0 11 20 12 55 19 1 39 18 14 23 (17 3 7 (31 21 29) 15 15 51 15 4 35 18 17 19 18 6 3	d. h. m. 22 22 5 21 12 41 7 11 29 23 0 14 21 9 13 20 16 28 18 23 6 18 6 11 16 14 50 (1 2 58 15 1 55 14 16 1 13 8 59 13 3 56	A.D. 242. B.  March. d. h. m. 21 12 36	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV	d. h. m. d  4 6 47  19 1 9 1  17 18 58 1  19 2 87 1  17 15 21 1  17 4 5 1  15 16 49 1  80 11 11 1  15 5 88 1  13 18 17 1  12 7 1  11 19 45  10 8 29  9 21 18	2. h. m. 4 18 18 8 19 3 7 11 33 9 4 29 7 20 56 7 12 2 16 1 18 30 0 0 15 12 44 13 22 51 12 8 24 11 18 7 10 4 27 9 15 37 25 1 15
240. E.D. 21 0 58	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV	11 18 47 10 7 81 10 20 15 9 8 59 8 21 48 7 10 27 6 28 11 5 11 55 4 0 39 8 18 28 2 2 7 { 1 14 51 81 8 86	1 14 5	- - - - - - - - - - - - - - - - - - -	JAN. FEB.	8 9 57 6 22 41 8 11 25 7 0 9 6 12 53 5 1 37 19 19 59 4 14 21 8 3 5 1 15 49 1 4 33 30 17 17 29 6 1	8 3 39 6 16 38 8 6 36 6 21 30 6 12 58 5 4 25 19 14 40 4 19 13 8 8 53 1 21 24 1 9 2 30 20 12 29 7 8
241. c. 21 6 4	APRIL MAY JUNE O JULY AUG. SEPT. OCT. Nov.	28 6 8 27 19 10 26 8 4 11 2 2 2 25 20 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9 29 17 2 1 28 11 3 30 4 2 28 19 6 28 5 4 0 26 15 2 10 15 5 14 25 28 1 8 24 7 5 2 22 16 6 22 2 1 10 14	3 1 244. 9.F. 21 0 1 5 6 6 8 8 22 8 15 5	JAN. FEB. MAR APRI MAY JUNE AUG SEPT OCT. NOV DEC	. 27 7 29 . 25 20 18 . 26 8 58 11 24 21 42 . 24 10 26 2 22 28 10 2 22 11 54 . 21 0 38 . 19 13 22 . 19 2 6 . 17 14 50	22 11 55 21 3 36 19 18 40 19 8 47 17 21 47

Mean Vernal Equinox,	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 245.		d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
E. March.	JAN	15 16 19	15 20 28	248. B.A.	JAN	13 7 29	18 17 41
d. h. m. 21 6 3	FEB MAR	14 5 3 15 17 47	14 6 20 15 15 34	March.	FEB	11 20 13 26 14 35	12 9 43 26 9 1
21 0 5	APRIL	(14 6 31	14 0 50	d. h. m. 20 23 29	MAR	12 8 57	12 22 42
	APRIL	29 0 53	29 13 10		APRIL	10 21 41	11 8 48
	MAY.	13 19 15	18 10 56		MAY.	10 10 25	10 16 43
	June .	12 7 59	11 22 41		June.	8 23 9	8 23 31
	JULY.	11 20 43	11 12 31		JULY.	8 11 53	8 6 16
	Aug.	10 9 27	10 4 15		Aug	7 0 37	6 14 5
	SEPT.	8 22 11	8 21 16		SEPT.	5 13 21	4 23 58
	Ост.	(8 10 55	8 14 33		Oct.	5 2 5	4 12 36
	0	23 5 17	22 18 34		Nov.	3 14 49	3 4 14
	Nov.	6 23 39	7 7 8		DEC	3 3 33	2 22 19
	DEC	6 12 23	6 22 13		DEC	0 0 00	2 22 13
	220.	0 11 10	0 22 10	249.	T	( 1 16 17	1 17 89
040	т	2 1 7	F 11 01	G.	JAN	31 5 1	31 12 35
246.	JAN	5 1 7 3 13 51	5 11 21 3 22 30		FEB. O	14 23 23	14 22 5
21 11 51	FEB	5 2 35				( 1 17 45	2 5 89
21 11 51	APRIL		5 7 53 3 16 2	21 5 18	Mar	31 6 29	31 19 53
1	O	3 15 19 18 9 41	18 18 13		APRIL	29 19 13	30 7 11
14	MAY.	3 4 3	2 23 46		MAY .	29 7 57	29 16 3
	JUNE.	1 16 47	(183		JUNE .	27 20 41	27 28 29
	OUNE.	(1 5 31	30 17 55		JULY .	27 9 25	27 6 88
	JULY.	30 18 15	30 6 13		0	(11 8 47	11 1 51
	AUG	29 6 59	28 21 15		Aug	25 22 9	25 14 28
1	SEPT.	27 19 43	27 14 39		SEPT	24 10 53	23 23 53
•	0	(12 14 5	12 9 40		Oct	28 28 37	23 11 82
	Oct	27 8 27	27 9 20		Nov	22 12 21	22 1 40
	Nov	25 21 11	26 3 53		DEC	22 1 5	21 18 4
	DEC	25 9 55	25 20 56	250.	Jan	20 13 50	20 12 1
047	T	00 00 40	04 44 60	F.	0	§ 4 8 12	4 14 14
247. q.	JAN Feb.	23 22 40	24 11 33		FEB	19 2 84	19 6 17
21 17 40	MAR.	22 11 24 24 0 8	22 23 26	21 11 7	MAR	20 15 18	20 23 85
T 11 ±0	APRIL	24 0 8 22 12 52	24 8 52		APRIL	19 4 2	19 14 58
	MAY .	22 12 52	22 16 35		MAY.	18 16 46	19 8 41
	JUNE .	20 14 20	21 23 29 20 6 36		June.	17 5 80	17 14 9
1	JULY.	20 14 20	19 15 6		JULY.	<b>∫16 18 14</b>	<b>16</b> 28 0
	AUG.	18 15 48	18 1 59		. 0	(31 12 36	81 2 81
	SEPT.	17 4 32	16 15 52		Aug	15 6 58	15 7 18
	Oct.	16 17 16	16 13 52		SEPT	18 19 42	18 15 44
	Nov.	15 6 0	15 3 39		Oct	18 8 26	18 1 18
	DEC.	14 18 44	14 23 13		Nov.	11 21 10	11 12 20
			10		DEC	11 9 54	11 1 1
L		1					

Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.) ((	True New Moon. ) Full Ecl.)
A.D. 251.		d. h. m.	d. h. m.	A.D. 254.		d. h. m.	d. h. m.
March.	JAN	9 22 38	9 15 21	March.	JAN	6 13 48	6 19 37
d. h. m.	FEB	8 11 22	8 7 4	d. h. m.	FEB	5 2 32	5 5 48
21 16 56	MAR.	10 0 6	9 23 37	21 10 22	MAR	6 15 16	6 15 4
	APRIL	8 12 50	8 16 12		APRIL	5 4 0	4 23 58
	MAY .	8 1 34	8 7 59		MAY.	§ 4 16 44	4 9 19
	June.	6 14 18	6 22 15		-0	(19 11 6	19 22 2
	JULY.	6 3 2	6 10 42		June.	3 5 28	2 19 59
1	Aug	4 15 46	4 21 37		JULY.	2 18 12	$\begin{pmatrix} 2 & 8 & 40 \\ 31 & 23 & 33 \end{pmatrix}$
1	SEPT	3 4 30 2 17 14	3 7 36   2 17 25		Aug	30 19 40	30 16 11
	Ocr	(1 5 58	1 3 35		SEPT.	29 8 24	29 9 42
	Nov	30 18 42	30 14 22		Oct.	28 21 8	29 3 1
1	DEC	30 7 26	30 1 54		001.	(12 15 30	12 5 2
	DEC.	00 . 20	00 1 01		Nov.	27 9 52	27 19 7
	T	28 20 11	28 14 11		DEC.	26 22 36	27 9 21
252. D.C.	JAN FEB	27 8 55	27 3 23				
20 22 44	MAR.	27 21 39	27 17 31	255.	JAN	25 11 21	25 21 28
20 22 41	APRIL	26 10 23	26 8 31	G.	Fев	24 0 5	24 7 33
	MAY.	25 23 7	25 23 58	21 16 11	MAR	25 12 49	25 16 3
	0	( 9 17 29	9 14 58		APRIL	24 1 33	23 23 43
	JUNE.	24 11 51	24 15 13		May.	23 14 17	23 7 25
	JULY.	24 0 35	24 5 40		JUNE.	22 3 1	21 16 15
	Aug.	22 13 19	22 19 0		JULY.	21 15 45	21 3 14
	SEPT	21 2 3	21 7 20		Aug.	20 4 29	19 16 58 18 9 24
	Oct	20 14 47	20 18 57		SEPT	18 17 13	18 9 24 3 9 4
	Nov	19 3 31	19 5 59		OCT.	$\begin{cases} 3 & 11 & 35 \\ 18 & 5 & 57 \end{cases}$	18 3 44
	0	3 21 53	<b>3</b> 19 46		Nov.	16 18 41	16 22 44
	DEC	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	18 17 2		DEC.	-0 -0-	16 16 48
253.	JAN	17 5 0	17 3 43	256.	JAN.	14 20 10	15 8 45
В.	FEB	15 17 44	15 14 16	F.E.	FEB.		13 21 56
21 4 88	MAR.	17 6 28	17 1 4	20 22 0			14 8 25
	APRIL	15 19 12	15 12 40		0	28 16 0	28 14 9
	MAY .	(15 7 56	15 1 32		APRIL	12 10 22	12 16 46
ŀ	0	(30 2 18	30 8 11		MAY .	. 11 23 6	11 23 50
	JUNE .	13 20 40	13 15 51		June .	. 10 11 50	
	July.	18 9 24	13 7 19		JULY .		
	Aug	11 22 8	11 23 16		Aug.		
	SEPT	10 10 52	10 14 59		SEPT.	ر ا	
	Oct	9 23 36	10 5 55		0	21 20 24	1
	Nov.	8 12 20			Oct.		1
	20	23 6 42			Nov.	. 5 3 30	
	DEC	8 1 4	8 8 17		DEC.	. 4 16 14	# 11 21

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.  O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon, (O Full Ecl.)(	True New Moon. O Full Ecl.)
A.D. 257. D. March. d. h. m. 21 3 49	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG O SEPT OCT Nov	d. h. m.  3 4 58 1 17 42 { 3 6 26 { 18 0 48 1 19 10 { 1 7 54 { 30 20 38 29 9 22 28 22 6 27 10 50 { 11 5 12 { 25 23 34 25 12 18 24 1 2 23 13 46	d. h. m.  3 12 40 2 6 0 3 20 29 17 19 3 2 7 52 1 16 42 30 23 53 29 6 33 28 13 48 26 22 37 11 10 34 25 9 55 25 0 7 23 17 5 23 11 55	A.D. 260. A.G. March. d. h. m. 20 21 15	O JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV	d. h. m.  {15 14 30 } {30 8 52 } 28 21 36 } 29 10 20 } 27 23 4 } 27 11 48 } 26 0 32 } {10 18 54 } {25 13 16 } 24 2 0 } 22 14 44 } 22 3 28 } 20 16 12 } 20 4 56	d. h. m.  16 2 48 30 3 5 28 18 59 29 11 25 28 3 38 27 18 37 26 8 6 10 7 12 25 19 56 24 6 34 22 16 40 22 2 48 20 13 22 20 0 30
258. c. 21 9 87	Jan Feb Mar April May . June . July . Aug Sept Oct Nov Dec	22 2 31 20 15 15 22 3 59 20 16 43 20 5 27 18 18 11 18 6 55 16 19 39 15 8 23 14 21 7 13 9 51 12 22 85	22 7 8 21 1 10 22 16 48 21 5 29 20 15 28 18 23 33 18 6 49 16 14 20 14 23 2 14 9 38 12 22 32 12 13 48	261. F. 21 3 4	O JAN FEB MAR APRIL MAY . O JULY . AUG SEPT OOT NOV	\$ 28 19 {18 17 41 17 6 25 18 19 9 17 7 58 16 20 37 {15 9 21 30 3 48 14 22 5 18 10 49 11 28 38 11 12 17 10 1 1	4 9 28 18 12 14 17 0 40 18 14 1 17 4 22 16 19 30 15 10 58 29 22 7 15 1 55 18 16 4 12 5 11 11 17 25 10 5 0
259. B. 21 15 26	JAN  O FEB MAR APRIL MAY . JUNE . O AUG SEPT. OCT. Nov. DEC.	11 12 48 10 1 32 9 14 16 8 3 0 7 15 44 22 10 6 6 4 28 4 17 12 4 5 56	7 22 22 21 22 47 6 6 58 4 15 27 4 0 38 2 10 59 1 1 22 50	13	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC.	2 19 38 1 8 22 30 21 6 30 9 50 28 22 34	$\begin{cases} 1 & 2 & 30 \\ 30 & 17 & 10 \\ 29 & 6 & 33 \end{cases}$

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New T Moon. O Full Ecl.)(O	rue New Moon. Full Ecl.)
A.D. 263.		d. h. m.	d. h. m.	A.D. 266,		d. h. m.	d. h. m.
D.	JAN	27 0 2	27 5 11	G.	JAN.	23 15 12 2	4 1 36
March.	FEB	25 12 46	25 14 41	March.	FEB		2 17 31
d. h. m.   21 14 42	MAR	27 1 30	26 23 27	d. h. m.	0	(8 22 18	8 16 51
	APRIL	25 14 14	25 8 14	21 8 8	MAR.	)	24 6 21
	0	(10 8 36	10 20 11		APRIL	- 1	22 16 18
	MAY.	25 2 58	24 17 57		MAY.		22 0 9
	June .	23 15 42	23 5 27		June .		20 6 57
	July.	23 4 26	22 19 13		JULY.		19 13 50
	Aug.	21 17 10	21 11 9		Aug.		17 21 51
	SEPT.	20 5 54	20 4 34		SEPT.		16 7 56
	Oct.	19 18 38	19 22 22		Oct.		15 20 44
		(3 13 0	3 3 12		Nov.		14 12 24
	Nov.	18 7 22	18 15 25		DEC.		14 6 22
		17 20 6	18 6 47		DEC	14 11 10	11 0 11
	DEC	17 20 0	10 0 4.	267.	JAN	13 0 1	13 1 29
004	JAN	16 8 51	16 20 O	F.	FEB	(11 12 45	11 20 10
264. c.b.	FEB.		15 6 57		0	26 7 7	26 6 23
	MAR.	1	15 16 0	21 13 57	MAR	13 1 29	13 13 0
20 20 30		40.00.0			APRIL	11 14 13	12 3 6
	APRIL	28 17 25			MAY .	11 2 57	11 14 21
	M	. 13 11 47	13 7 11		June .	9 15 41	9 23 20
	MAY				JULY .	9 4 25	9 6 58
	JUNE				Aug.	7 17 9	7 14 23
	July		1	1	0	22 11 31	22 8 46
	Aug.		1		SEPT.	6 5 53	5 22 33
	SEPT.	-		11	Oct.	. <b>5 1</b> 8 37	5 8 17
	Oct.	. 8 3 2		11	Nov.	. 4 7 21	3 20 4
		22 21 4		11	DEC.	. 3205	3 10 8
	Nov.			U		(2 8 49	2 2 15
	DEC.	. 6 4 5	0 12 2	268.	JAN.	. 31 21 33	31 19 44
	T	. 4 17 3	5 5 18	E.D.	FEB.	(01 21 00	
265.	JAN.	3 6 2	1 1	11	0	15 15 55	15 22 42
	FEB.		7 5 7 30	11		( 1 10 17	1
21 2 19		0.75	·	11 00 10 4	6 MAR.	830 23 1	1
	APRI		T	9	APRI	00 44 45	``` <b>.</b>
	MAY	•		· 11	MAY		1
	June		3 30 13 5	. II	JUNE	07 40 40	
	-	(50 22	1	11	JULY	05 4 50	
	July	20.00.0		11	0	(10 20 19	1
	Aug	0= 10 1	-	11	Avg.	1500 44 45	
	SEPT	• • •	1	11	SEPT.	24 0 0	1
	0	1377		11 .	Oct.		23 9 58
	Ост.		1	11	Nov.		
	Nov.	م مد		. 11	DEC.	24 45 0	1
	DEC.	. 25 2 5	2. 20 . 1	-	1220.		1
1	1	1	1				

Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.		(O Full Ecl.)		Equinox.	111/1220111	(O Full Ecl.)	(O Full Ecl.)
A.D. 269.	_	d. h. m.	d. h. m.	A.D. 272.		d. h. m.	d. h. m.
C. March.	JAN	20 6 22	19 23 36	G.F. March.	JAN	17 21 32	18 4 24
d. h. m.	FEB	18 19 6	18 14 46	d. $h.$ $m.$	FEB	16 10 16	16 14 17
,21 1 34	MAR	20 7 50	20 6 44	20 19 1	MAR	16 23 0	16 23 8
	APRIL	18 20 34	18 22 56		APRIL	15 11 44	15 7 34
	MAY.	18 9 18	18 14 32		MAY .	15 0 28	14 16 30
	June.	16 22 2	17 4 54		0	[ [ 18 50 ]	30 5 6
	July.	16 10 46	16 17 43		June.	13 13 12	13 2 53
	Aug	14 23 30	15 5 9		July.	13 1 56	12 15 26
ļ	Sept	13 12 14	13 15 42		Aug	11 14 40	11 6 24
	Ocr	13 0 58	13 1 58		SEPT	10 3 24	9 23 21
	Nov	11 13 42	11 12 28		Ocr	9 16 8	9 17 20
	DEC	11 2 26	10 23 19		Nov	8 4 52	8 11 8
					0	22 23 14	22 13 44
270.	JAN	9 15 11	9 10 39		DEC	7 17 36	8 3 36
в.	FEB.	8 3 55	7 22 28			1	
21 7 23	MAR.	9 16 39	9 11 2	273.	JAN	6 6 21	6 17 59
	APRIL	8 5 23	8 0 36	E	FEB	4 19 5	5 5 58
	MAY.	7 18 7	7 15 9	21 0 50	MAR	6 7 49	6 15 47
	JUNE .	6 6 51	6 6 25		APRIL	4 20 33	4 23 56
	0	21 1 13	20 22 26		MAY .	4 9 17	4 7 15
	JULY.	5 19 35	5 21 46		JUNE .	2 22 1	2 14 42
	Aug.	4 8 19	4 12 37		-	2 10 45	1 23 25
	SEPT.	2 21 3	3 2 32		July .	<b>31 23 29</b>	31 10 22
	SEFT.	(2 9 47	2 15 29		Aug	30 12 13	30 0 12
	Ост	31 22 31			SEPT	29 0 57	28 16 52
	Nov	30 11 15	$\begin{cases} 1 & 3 & 36 \\ 30 & 15 & 4 \end{cases}$		0	(13 19 19	13 17 40
1		(15 5 37	15 3 44		Oct	28 13 41	28 11 31
	DEC.	129 23 59	30 1 59		Nov	27 2 25	27 6 46
	DEC	(25 26 55	00 1 00		DEC	26 15 9	27 1 0
271.	JAN	28 12 43	28 12 23	274.	T. 37	25 8 58	25 16 58
Α.	FEB	27 1 27	26 22 28	D.	JAN FEB	23 16 37	24 6 2
21 13 12	MAR	28 14 11	28 8 42	21 6 39	MAR.	25 5 21	25 16 18
	APRIL	27 2 55	26 19 45	21 0 39		(8 23 43	8 21 5
	MAY .	26 15 39	26 8 13		A	23 18 5	24 0 24
	0	(10 10 1	10 15 33		APRIL MAY .	23 6 49	23 7 18
	JUNE .	25 4 23	24 22 21		1	21 19 33	21 14 2
	JULY .	24 17 7	24 13 54		JUNE .	1	20 21 44
	Aug	1	23 6 14		JULY.	21 8 17 19 21 1	19 7 27
	SEPT	21 18 35	21 22 32		Aug	1	17 20 1
	Oct	21 7 19	21 14 3		SEPT	1	
	Nov.	19 20 3	20 4 19		0	3 4 7	8 8 37
	0	( 4 14 25	1		Oct	(17 22 29	17 11 39
	DEC.	19 8 47	1		Nov.	16 11 13	16 5 53
		, = = =,			DEC	15 23 57	16 1 25
	<u> </u>			11 ,	1		

Mean Vernal Equinox.	Month	M an New T Moon. Tull Ecl.)	rue New Moon. Full Ecl.)	Mean Vernal Equinox.	Month.	lean New T Moon. Full Ecl.)(O	rue New Moon. Full Ecl.)
A.D. 275. c. March. d. h. m. 21 12 27	JAN FEB MAR	d. h. m.  14 12 42 1 13 1 26 1 (14 14 10 1 (29 8 32 2 13 2 54 1 12 15 38 1 11 4 22 1 10 17 6 3 9 5 50 ( 7 18 34	d. h. m. 4 20 35 3 13 48 5 4 8 29 2 32 13 15 23 13 0 7 11 7 19 10 14 5 8 21 32 7 6 36 22 18 19 6 18 5 5 8 21 5 1 15	A.D. 278. F. March. d. h. m. 21 5 54	FEB  MAR  APRIL  MAY .  JUNE .  JULY .  O  AUG  SEPT  OCT  Nov	11	d. h. m. 0 20 48 6 11 11 9 11 1 1 2 19 9 18 15 9 10 7 8 1 11 7 14 56 21 14 32 6 3 15 4 14 26 4 1 3 2 11 36 1 22 21 31 9 22
276. B.A. 20 18 16	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	$\begin{array}{c} 3\ 21\ 30 \\ 2\ 10\ 14 \\ \left\{ \begin{array}{ccccc} 2\ 25\ 58 \\ 17\ 17\ 20 \\ 1\ 11\ 42 \\ \left\{ \begin{array}{ccccc} 1\ 0\ 26 \\ 30\ 13\ 10 \\ 29\ 1\ 54 \\ 28\ 14\ 38 \\ 27\ 3\ 22 \\ 25\ 16\ 6 \\ 25\ 4\ 50 \\ 23\ 17\ 34 \\ 23\ 6\ 18 \end{array} \right. \end{array}$	3 19 51 .2 14 46 3 8 32 17 15 0 1 23 58 1 12 36 30 22 39 29 6 55 28 14 29 26 22 20 25 7 21 24 18 10 28 7 6 22 22 8	279. E. 21 11 43	JAN FEB MAR APRIL MAY . JUNE . O JULY . AUG SEPT OCT NOV DEC	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	15 17 24 29 20 42 28 8 85 29 21 19 28 11 8 28 1 57 26 17 21 11 5 38 26 8 39 24 23 20 23 18 5 23 1 52 21 13 50 21 1 8
277. g. 21 0 t	APRIL MAY JUNE JULY AUG. SEPT. OCT. Nov.	20 9 15 19 21 59 18 10 43 17 23 27 16 12 11	21 14 51 5 22 4 20 8 23 22 1 44 20 17 47 20 7 49 18 19 39 18 5 41 16 14 45 14 23 40 14 9 13 12 19 48 12 7 38		JAN FEB APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	19 10 12 17 22 56 18 11 41 17 0 25 16 18 9 15 1 58 14 14 87 13 3 21 11 16 5 11 4 49 9 17 33 9 6 17	19 11 87 17 21 86 18 7 27 16 17 44 16 5 12 14 18 28 14 9 17 13 1 28 11 18 7 11 10 24 10 1 85 9 15 18

Mean Vernal Equinox,	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 281.		d. h. m.	d. h. m.	A.D. 284.		d. h. m.	d. h. m.
B.	Jan	7 19 2	8 3 21	F.E.	JAN.	5 10 12	5 15 6
March.	FEB	6 7 46	6 13 47	March. $d. h. m.$	FEB	3 22 56	4 9 24
d. h. m. 20 23 20	MAR.	7 20 30	7 22 54	20 16 47	MAR	4 11 40	5 1 20
20 20 20	APRIL	6 9 14	6 7 13		APRIL	3 0 24	3 13 51
	MAY .	6 5 21 58	5 15 35		MAY .	2 13 8	2 23 42
	0	20 16 20	21 3 8		Terren	f 1 1 52	1 7 33
	June .	4 10 42	4 0 58		JUNE.	130 14 36	30 14 27
	JULY.	3 23 26	3 12 16		JULY .	<b>30 3 2</b> 0	29 21 32
	Aug	2 12 10	$\int 2 2 4$		Aug	28 16 4	28 5 47
	SEPT	f 1 0 54	31 18 14		SEPT	27 4 48	26 16 6
	OLPT	(30 13 38	30 12 2		Ост.	26 17 32	26 5 1
	Oc <b>r.</b> .	30 2 22	30 6 18		Nov.	25 6 16	24 20 39
	0	$\int 13 \ 20 \ 44$	13 11 57		DEC	24 19 0	24 14 26
	Nov	128 15 6	28 23 45				
	DEC	28 3 50	28 15 19	285.	JAN	23 7 44	23 9 13
282.	JAN	26 16 34	27 4 29	D.	FEB	21 20 28	22 3 36
Α.	Fев	25 5 18	25 15 14		0	$\int 8 14 50$	8 14 32
21 5 9	MAR	26 18 2	26 23 58	20 22 36	MAR	123 9 12	23 20 10
	APRIL	25 6 46	25 7 27		APRIL	21 21 56	22 10 10
Ì	0	(10 1 8	10 7 31		MAY .	21 10 40	21 21 27
	MAY .	24 19 30	24 14 34		June .	19 23 24	20 6 35
	JUNE.	23 8 14	22 22 26		JULY.	19 12 8	19 14 30
1	JULY.	22 20 58	22 8 9		Aug	18 0 52	17 22 15
	Aug	21 9 42	20 20 33		20	1 19 14	1 15 51
	SEPT	19 22 26	19 11 56		SEPT	16 13 36	16 6 47
	Oct	19 11 10	19 5 51		Oct	16 2 20	15 16 47 14 4 41
	0	$\int 3  5  32$	-		Nov.	14 15 4 14 3 48	13 18 37
	Nov.	17 23 54	1		DEC	14 3 48	19 10 91
1.	DEC	17 12 38	17 20 8		_	12 12 22	40.40.00
283.	JAN	16 1 23	16 13 24	28 <b>6</b> .	JAN	12 16 83	12 10 23
G.	FEB	14 14 7	15 3 54	J	FEB	11 5 17	11 8 28
21 10 58	MAR	16 2 51		21 4 25	Mun	125 28 89	26 7 8
	APRIL	∫14 15 35		21 4 25	MAR	12 18 1 11 6 45	12 20 44 11 13 22
	0	129 9 57	1		MAY.	10 19 29	11 15 22
	MAY .	14 4 19			JUNE .	9 8 18	9 17 24
	JUNE.	12 17 3	1		JULY.	8 20 57	9 4 26
	JULY.	12 5 47			AUG.	7 9 41	7 14 6
	AUG	10 18 31	1		0	22 4 3	21 16 84
	SEPT.	9 7 15		1	SEPT.	5 22 25	5 28 18
	Ост	$ \begin{cases} 8 & 19.59 \\ 23 & 14.21 \end{cases} $			Oct.	5 11 9	5 8 36
1	Nov.	7 8 43	1	.	Nov.	3 23 53	3 18 47
	DEC.	6 21 27			DEC.	3 12 37	3 6 0
			0 10 94				

Mean Verual Equinox.	Month.	Mean New Moon. O Full Ect.)	True New Moon. Tull Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 287.	T	d. h. m.	d. h. m. 1 18 20	A.D. 290.	Jan	d. h. m. 28 5 16	d. h. m. 28 13 4
В.	JAN.	(31 14 5	31 7 47	March. $d$ . $h$ . $m$ .	FEB	26 18 0	26 22 37
March.	FEB			21 3 40	MAR	28 6 44	28 7 3
d. h. m.	M	(2 2 50	1 22 21		APRIL	26 19 28	26 15 5
21 10 18	Mar	(81 15 34	31 13 45		MAY .	26 8 12	25 23 40
1	APRIL	30 <b>4 1</b> 8	30 5 32		0	(10 2 34	10 12 6
1	MAY .	29 17 2	29 21 2		June .	24 20 56	24 9 49
i	June .	28 5 46	28 11 34		JULY.	24 9 40	23 22 18
	JULY .	27 18 30	28 0 48		Αυς	22 22 24	22 13 24
	Aug	26 7 14	26 12 46		SEPT	21 11 8	21 6 41
	SEPT	24 19 58	24 23 53		Ост	20 23 52	21 1 5
1	Ocr	24 8 42	24 10 40		Nov	19 12 36	19 19 17
1	Nov	22 21 26	22 21 25		0	(4 6 58	3 22 31
	DEC.	22 10 10	22 8 17		DEC	[19 1 20]	19 12 1
	-	20 22 54	20 19 18				
288.	JAN	19 11 38	19 6 38	291.	JAN	17 14 4	18 2 28
1	FEB.	20 0 22	19 18 35	D.	FEB	16 2 48	16 14 18
20 16 2	MAR	18 13 6	18 7 34	21 9 29	MAR.	17 15 32	17 23 49
	APRIL	18 1 50	17 21 43		APRIL	16 4 16	16 7 40
	MAY .	16 14 34	16 12 50		MAY .	15 17 0	15 14 43
1	June .	1	1 5 55		JUNE .	14 5 44	13 22 0
1	_ 0	12	16 4 21		JULY .	13 18 28	13 6 39
	JULY.	14 16 2	14 19 39		Aug	12 7 12	11 17 38
1	Aug	13 4 46	13 10 11		SEPT	10 19 56	10 7 36
	SEPT	12 17 30	12 23 43		Oct	10 8 40	10 0 27
1	Oct.	11 6 14	11 12 19		Nov.	8 21 24	8 19 20
	Nov.	(10 18 58	11 0 0		DEC.	8 10 8	8 14 47
1	DEC	25 13 20	25 11 42				1
1	0	1		292.	JAN.	6 22 53	7 9 8
289.	JAN	9 7 43	9 10 52	C.B.	FEB.	5 11 37	1
F.	FEB	7 20 27	7 20 56	20 15 18		6 0 21	6 13 58
20 21 51	1	9 9 11	9 6 32		APRIL	(413 5	5 0 2
	APRIL	7 21 55	7 16 14		0	19 7 27	7 19 3 54
1	MAY .	7 10 39	7 2 48		MAY	4 1 49	4 7 58
	June.	5 23 23	5 14 55		June		2 14 45
	0	20 17 45	20 22 55			7 2 3 13	7 1 21 30
	JULY .		5 4 55		July	{31 16 :	1 31 5 17
	Aug.	0 40 07	3 20 38		Aug.	30 4.45	29 15 10
	Sept		2 13 22		SEPT.	20 4 = 20	28 3 52
	Oct.	$\begin{cases} 2 & 2 & 19 \\ 3 & 47 & 3 \end{cases}$	2 6 13		0	(13 11 5	1 13 17 1
		31 15 3	1		Oct.	$\{28 \ 6 \ 18$	3 27 <b>1</b> 9 <b>3</b> 8
	Nov.	1	30 12 58		Nov.	. 26 18 57	7 26 13 53
	_ 0	14 22 9			DEC.	. 26 7 41	L 26 9 21
	DEC	.   \29 16 31	30 1 55				
1	I	1					

				1	1		
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D.							
293.		d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
A	JAN	24 20 25	25 4 33	296.	JAN	22 11 35	22 5 7
d. h. m.	FEB	23 9 9	23 21 27	E.D.	0	6 5 57	6 19 24
20 21 6	MAR	24 21 53	25 11 36	March. $d. h. m.$	FEB	21 0 19	20 18 50
	0	( 8 16 15	8 9 53	20 14 33	MAR	21 13 3	21 9 32
	APRIL	23 10 37	23 22 45		APRIL	20 1 47	20 0 59
	MAY .	22 23 21	23 7 28		MAY.	19 14 31	19 16 35
	JUNE .	21 12 5	21 14 45		JUNE .	18 3 15	18 7 42
	JULY.	21 0 49	20 21 42		JULY.	17 15 59	(17 21 47)
	Aug	19 13 33	19 5 22		0	( 1 10 21	131 21 57
	SEPT	18 2 17	17 14 42		Aug	16 4 48	16 10 37
	0	ſ 2 20 <b>3</b> 9	3 2 8		SEPT	14 17 27	14 22 24
	Oct	17 15 1	<b>17</b> 2 22		Ост	14 6 11	14 9 33
	Nov	16 3 45	15 15 41		Nov	12 18 55	12 20 27
	DEC	15 16 29	<b>15</b> 9 25		DEC	12 7 39	12 7 19
294.	JAN	14 5 14	14 3 43	297.	JAN	(10 20 23	10 18 8
G.	FEB	12 17 58	12 22 18	C.	0	25 14 45	26 1 19
21 2 55	MAR	(14 6 42	14 15 46		FEB	9 9 7	9 5 4
	0	29 1 4	28 22 53	20 20 22	MAR.	10 21 52	10 16 24
	APRIL	12 19 26	13 7 2		APRIL	9 10 36	9 4 32
	MAY .	12 8 10	12 19 38		MAY.	8 23 20	8 17 51
•	JUNE .	10 20 54	11 5 48		June.	7 12 4	7 8 25
	JULY.	10 9 33	10 14 21		JULY.	7 0 48	6 28 51
	Aug	8 22 22	8 22 14		0	21 19 10	21 13 13
	SEPT	7 11 6	7 6 27		Aug.	5 13 32	5 15 81
1	Ост	6 23 50	6 15 50		SEPT.	4 2 16	4 6 44
	Nov	5 12 34	5 2 50		Oct.	3 15 0	3 21 7
	DEC	5 1 18	4 15 43		Nov.	2 8 44	2 10 25
						( 1 16 28	1 22 42
295.	JAN	3 14 3	3 6 29		DEC	81 5 12	31 9 59
F.	FEB	(2 2 47	1 22 42			(01 0 11	02 0 00
	0	16 21 9	17 6 29	298.	JAN	29 17 56	29 20 18
21 8 44	MAR.	3 15 31	3 15 44	298. B.	FEB		
	APRIL	2 4 15	2 8 38	21 2 11	MAR.	28 6 41 29 19 25	28 5 58
	3.5	( 1 16 59	2 0 28	E1 Z 11	APRIL	28 8 9	29 15 12 28 0 59
	MAY.	31 5 43	31 14 32		MAY.	27 20 53	28 0 59 27 12 4
	JUNE.	29 18 27	30 2 38		June .	26 9 37	26 1 1
1	JULY .	29 7 11	29 13 5		JULY.	25 22 21	
	Avg	27 19 55	27 22 38		Aug.	25 22 21 24 11 5	25 15 57   24 8 25
	SEPT	26 8 39	26 8 2		SEPT.	22.23 49	
	Ост	25 21 23	25 17 57		Oct		1
	Nov	24 10 7	24 4 43		Nov	22 12 33 21 1 17	22 18 24 21 10 5
	DEC	23 22 51	23 16 25		DEC.	20 14 1	21 10 5 21 0 1
					DEC.	20 14 1	בו טוב
			1.	1			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernul Equinux.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 299.		d. h. m.	d. h. m.	A.D. 302.		d. h. m.	d. h. m.
March.	Jan	19 2 45	19 12 2	D. March.	JAN	15 17 55	15 22 56
d. $h.$ $m.$	Feb	17 15 29	17 22 14	d. h. m.	FEB	14 6 39	14 17 2
21 7 59	MAR	19 4 13	19 6 58	21 1 26	MAR	15 19 23	16 8 37
	APRIL	17 16 57	17 14 53		APRIL	14 8 7	14 21 11
	MAY .	17 5 41	16 22 53		MAY.	13 20 51	14 7 1
	0	$\int 1 \ 0 \ 3$	1 10 1		June.	12 9 35	12 14 54
	June.	15 18 25	15 8 0		July.	11 22 19	11 21 58
	July.	15 7 9	14 19 12		Aug	10 11 3	10 5 18
	Aug	13 19 53	13 9 2		SEPT	8 23 47	8 13 50
	SEPT	12 8 37	12 1 25		Ост	8 12 31	8 0 23
	Oct	11 21 21	11 19 35		Nov	7 1 15	6 13 25
	Nov	10 10 5	10 14 15		DEC	6 13 59	6 4 57
	0	125 4 27	24 20 46				
	DEC	9 22 49	10 8 2	303.	JAN	5 2 44	4 22 27
300.	JAN	8 11 34	8 23 46	С.	FEB	3 15 28	3 16 52
G.F.	FEB.	7 0 18	7 12 52	21 7 15	MAR	5 4 12	5 10 52
20 13 48	MAR.	7 13 2	7 23 23		0	19 22 84	19 22 35
10 10 10	APRIL	6 1 46	6 7 49		APRIL	3 16 56	4 3 13
	MAY .	c 5 14 30	5 15 2		MAY .	3 5 40	3 17 8
	0	1 20 8 52	20 14 4		June .	1 18 24	. 2 4 30
	JUNE .	4 3 14	3 21 57		T	f 1 7 8	1 13 52
	July .	8 15 58	3 5 44		JULY.	130 19 52	30 22 6
		(2 4 42	1 15 27		Aug	29 8 36	29 6 16
	A.UG.	<b>31 17 26</b>	31 3 57		0	$\int 13 \ 2 \ 58$	12 23 2
	SEPT.	80 6 10	29 19 31		SEPT	\27 21 20	27 15 11
	Ocr	29 18 54	29 13 38		Ocr	27 10 4	27 1 27
	0	(13 13 16	13 12 5		Nov	25 22 48	25 13 24
	Nov	28 7 38	28 9 5		DEC	25 11 32	25 3 8
	DEC	27 20 22	28 4 12		1		
301.	JAN	26 9 7	26 21 28	304.	JAN	24 0 16	23 18 27
Е.	FEB	24 21 51	25 11 51	B.A.	FEB	<b>22 13</b> 0	22 10 53
20 19 37	MAR.	26 10 35	26 23 11		0	§ 8 7 22	8 15 14
== == ==	APRIL	24 28 19	25 7 59	20 13 4	MAR	₹28 1 44	23 3 43
	O	9 17 41	9 14 41		APRIL	21 14 28	21 20 3
	MAY .	24 12 3	24 15 10		MAY .	21 8 12	21 11 3
	JUNE .	23 0 47	22 21 47		June .	19 15 56	20 0 13
	July.	22 18 81	22 4 58		JULY.	19 4 40	19 11 38
	Aug.	21 2 15	20 13 47		Aug	17 17 24	§17 21 46
	SEPT.	19 14 59	19 1 6		0	ſ 1 11 46	181 23 48
	Oct.	19 3 43	18 15 25		SEPT	16 6 8	1
	0	( 2 22 5	3 3 14		Ocr	15 18 52	1K 17 19
	Nov.	17 16 27	17 8 32		Nov	14 7 36	
	DEC	17 5 11	17 3 34		DEC	13 20 20	
			1				

Mean Vernal	Month.	Menn New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.		(O Full Ecl.)	(O Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ect.)
A.D. 305.		d. h. m.	d. h. m.	A.D. 308.		d. h. m.	d. h. m.
G. March.	JAN	12 9 4	12 2 54	m.c. March.	JAN	10 0 15 8 12 59	10 10 87 8 21 86
d. h. m.	FEB	10 21 49	10 15 52	d. h. m.	FEB MAR	9 1 48	9 6 50
20 18 52	MAR	12 10 33	12 5 48 10 20 38	20 12 19	APRIL	7 14 27	7 14 52
	APRIL	10 23 17 10 12 1	10 12 3		MAY.	7 8 11	6 22 82
	MAY . June .	9 0 45	9 3 30		June.	( 5 15 55	5 6 49
	JULY.	8 13 29	8 18 16		0	20 10 17	20 19 5
1	Aug.	7 2 13	7 7 56		July.	5 4 89	4 16 48
	0	21 20 35	21 6 58		Aug.	8 17 28	8 5 17
	SEPT	5 14 57	5 20 30		SEPT.	2 6 7	1 20 82
	Oct.	5 3 41	5 8 12		, , , , , , , , , , , , , , , , , , ,	( 1 18 51	1 14 5
	Nov.	3 16 25	3 19 25		Oct	81 7 85	81 8 52
	DEC.	3 5 9	3 6 22		Nov	29 20 19	80 8 26
	DEC				0	(14 14 41	14 7 16
306.	JAN	$ \int 1 17 54 $	1 17 11		DEC	29 9 8	29 20 28
F.		(31 6 38	31 3 52				
	FEB			200	Jan	27 21 48	28 10 49
21 0 41	MAR.	$\int_{0}^{1} \frac{1}{2} \frac{19}{2} \frac{22}{2}$	1 14 40	309.	FEB.	26 10 82	26 22 29
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	31 2 2	1	MAR.	27 28 16	28 7 46
	APRIL	29 20 50	29 14 28	20 18 8	APRIL	26 12 0	26 15 21
ł	MAY .	29 9 34	29 4 17		MAY.	26 0 44	25 22 10
	JUNE.	27 22 18 (12 16 40	27 19 19 12 13 28		JUNE .	24 18 28	24 5 20
	JULY.	$\begin{cases} 12 & 10 & 40 \\ 27 & 11 & 2 \end{cases}$	27 11 3		JULY.	24 2 12	28 18 59
	Aug.	25 23 46	26 2 48		Aug.	22 14 56	22 1 8
	SEPT.	24 12 30	24 17 57		SEPT	21 8 40	20 15 10
1	Oct.	24 1 14	24 8 5		Ocr	20 16 24	20 8 12
	Nov.	22 13 58	22 21 5		Nov.	19 5 8	19 8 16
	DEC.	22 2 42	22 8 54		DEC	18 17 52	18 22 48
						•	
307.	JAN.	$\begin{cases} 5 & 21 & 4 \\ 20 & 15 & 26 \end{cases}$	5 19 38	310.	JAN	17 6 86	17 17 9
E.	FEB	19 4 10	20 19 37 19 5 21	A.	FEB	15 19 20	16 8 59
21 6 30	MAR.	20 16 54	19 5 21 20 14 29	20 28 57	MAR.	17 8 4	17 21 48
== 5 50	APRIL	19 5 38	18 23 41		A.PRIL	(15 20 48	16 7 88
	MAY.	18 18 22	18 9 48		0	80 15 10	80 10 40
	JUNE .	17 7 6	16 21 38	1	MAY .	15 9 82	15 15 26
	0	(2 1 28	2 6 17		June.	18 22 16	18 22 10
	JULY .	16 19 50	16 11 35		JULY.	18 11 0	18 4 59
	Aug	15 8 34	15 3 28		Aug	11 28 44	11 12 57
	SEPT	13 21 18	13 20 36		SEPT	10 12 28	9 28 2
	Oct	13 10 2	13 13 59		Ocr	£10 1 12	9 11 58
	Nov	11 22 46	12 6 34		0	24 19 84	25 1 80
	DEC	ſ11 11 30	11 21 35		Nov	8 18 56	8 8 48
**	10	126 552	25 21 52		DEC	8 2 40	7 21 54
ļ.	<u> </u>	1				1	

Mean Vermul Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 311.	_	d. h. m.	d. h. m.	A.D. 314.		d. h. m.	d. h. m.
March.	JAN	6 15 24	6 17 13	c.	JAN	3 6 35	3 1 10
d. h. m.	FEB	5 4 8	5 12 2	Manah	FEB	( 1 19 19	1 13 25
21 5 45	MAR	6 16 58	7 4 54	March. $d. h. m.$	0	(16 13 41	17 3 30
	APRIL	5 5 5 87	5 18 56	20 23 11	MAR	3 8 3	3 2 34
	0	(19 28 59	19 17 12		APRIL	1 20 47	1 16 39
	MAY .	4 18 21	5 6 2		3.5	(1 9 31	1 7 87
	June.	8 7 5	3 14 47		MAY.	30 22 15	30 23 3
	July.	2 19 49	2 22 12		JUNE .	29 10 59	29 14 16
	Aug	1 8 88	1 5 24		JULY.	28 23 43	29 4 43
	zkogi i	80 21 17	80 18 28		0	(12 18 5	12 5 33
	SEPT	29 10 1	28 28 0		Aug	27 12 27	27, 18 6
	0	14 4 28	14 10 5		SEPT	26 1 11	26 6 30
	Ocr	28 22 45	28 10 49		Ocr	25 13 55	25 18 11
	Nov	27 11 29	27 1 6		Nov.	24 2 39	24 5 22
	DEC	27 0 18	26 17 85		DEC	23 15 23	23 16 16
				315.	Jan	22 4 7	22 2 52
312.	JAN	25 12 58	25 11 31	В.		( 5 22 29	6 9 5
	FEB	24 1 42	24 5 40		FEB	20 16 51	20 13 21
20 11 81	MAR	24 14 26	24 22 49	21 5 0	MAR.	22 5 36	22 0 6
1	. 0	8 8 48	8 6 38		APRIL	20 18 20	20 11 39
	APRIL	28 8 10	28 18 56		MAY.	20 7 4	20 0 33
	MAY .	22 15 54	28 2 85		JUNE .	18 19 48	18 14 56
	June.	21 4 88	21 12 58		JULY.	18 8 32	18 6 26
	July.	20 17 22	20 21 48		0	(2 2 54	1 20 55
	Aug	19 6 6	19 6 6		Aug.	16 21 16	16 22 27
	SEPT	17 18 50	17 14 45		SEPT.	15 10 0	15 14 15
	Ocr	17 7 84	17 0 27		Oct	14 22 44	15 5 14
1	Nov.	15 20 18 15 9 2	15 11 86		Nov	13 11 28	13 19 2
	DEC	15 9 2	15 0 22		DEC	13 0 12	13 7 35
813.	JAN	18 21 46	18 14 44	316.	JAN.	11 12 56	11 18 49
b.	FEB	(12 10 80	12 6 25	A.G.	FEB.	10 1 40	10 4 52
	0	27 4 52	27 14 45	20 10 49	MAR.	10 14 24	10 14 1
20 17 28	MAR.	18 28 14	18 22 54		APRIL	9 3 8	8 22 50
	APRIL	12 11 58	12 15 24		MAY .	8 15 52	8 8 9
	MAY .	12 0 42	12 7 3		June .	7 4 36	6 18 54
	June .	10 18 26	10 21 18		JULY .	6 17 20	6 7 42
	July.	10 2 10	10 9 88		Aug	5 6 4	4 22 42
	Aug	8 14 54	8 20 88		SEPT	3 18 48	3 15 29
	SEPT	7 8 83	7 6 87		Oct	3 7 32	3 9 7
	OUT	6 16 22	6 16 32		Nov	1 20 16	2 2 29
	Nov	5 5 6	5 2 46		DEC	(190	1 18 33
	DEC	4 17 50	4 18 87	ll		(30 21 44	31 8 41
	-			11			1

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Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.	MOHIM.	(O Full Ecl.)	(O Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
I							
A.D. 317.		d. h. m.	d. h. m.	A.D. 320.		d. h. m.	d. h. m.
F.	T	29 10 29	29.20 38	C.B.	Jan	27 1 39	27 6 39
March.	Jan	27 23 13	28 6 33	March.	Feb	25 14 23	26 0 31
d. h. m. 20 16 38	FEB	29 11 57	29 14 55	$\begin{array}{c cccc} d. & h. & m. \\ 20 & 10 & 4 \end{array}$	MAR.	26 3 7	26 15 55
20 10 38	MAR	28 0 41	27 22 28	20 20 2	APRIL	24 15 51	25 4 25
	APRIL	27 13 25	27 6 10		MAY.	24 4 35	24 14 15
	MAY .		11 16 52		June .	22 17 19	22 22 17
	-0	<b> </b>	25 15 6		JULY.	22 6 3	22 5 35
	JUNE.	25 14 53	25 2 14		Aug	20 18 47	20 13 18
	JULY.		23 16 10		SEPT	19 7 31	18 22 4
	Aug	24 3 37	1		_	18 20 15	18 8 51
1	SEPT	22 16 21	22 8 47		Oct	17 8 59	16 21 55
	Oct	22 5 5	22 3 18		Nov.	16 21 43	
	Nov	20 17 49	20 22 19		DEC	10 21 49	16 13 17
	_ 0	5 12 11	5 5 38				
	DEC	(20 6 33	20 16 19	321.	JAN	15 10 27	15 6 24
318.	JAN	18 19 17	19 8 5	Α.	FEB	13 23 11	14 0 22
E.	FEB	17 8 1	17 21 4	20 15 53	MAR	∫15 11 55	15 17 59
20 22 27	MAR.	18 20 45	19 7 21		0	(30 6 17	30 6 28
1	APRIL	17 9 29	17 15 33		APRIL	14 0 39	14 10 7
	MAY .	(16 22 13	16 22 30		MAY .	13 13 23	13 23 59
	0	31 16 85	31 20 33		JUNE .	12 2 7	12 11 80
1 5 5	JUNE .	15 10 57	15 5 19		July.	11 14 51	11 21 10
17. 14	JULY.	14 23 41	14 13 5		AυG	10 3 35	10 5 49
	Aug	13 12 25	12 22 52		SEPT	8 16 19	8 14 21
	SEPT.	12 1 9	11 11 30		0	28 10 41	23 6 22
	Oct.	11 13 53	11 3 13		Oct	8 5 3	7 28 41
	Nov	(10 2 37	9 21 30		Nov	6 17 47	6 10 12
	0	24 20 59	24 21 0		DEC	6 6 81	5 22 9
	DEC	9 15 21	9 17 4				
319.		0 1 5	0 10 11	322.	JAN	4 19 15	4 11 85
D.	JAN	8 4 5 6 16 50	8 12 11	G.	FEB	8 7 59	8 2 25
21 4 16	FEB.	8 5 34	7 5 22 8 19 37	20 21 42	MAR.	( 4 20 44	4 18 17
71 4 10	MAR.	6 18 18	7 6 48		0	19 15 6	19 28 17
	APRIL	6 7 2			APRIL	8 9 28	8 10 88
	MAY.	21 1 24			MAY .	2 22 12	3 2 41
	TUNE	4 19 46	20 21 15 4 22 35			( 1 10 56	1 17 88
	JUNE.	4 8 30	4 22 55		JUNE .	80 28 40	(178
	Aug.	2 21 14	1		JULY .	80 12 24	30 18 54
	A.00.	(1 9 58	14 07 57 52		Aug.	29 1 8	29 5 84
	SEPT	30 22 42	1		0	(12 19 30	12 7 18
	Ост	30 11 26			SEPT.	27 18 52	27 15 44
	001.	(14 5 48			Oct	27 2 86	27 1 57
	Nov.	29 0 10			Nov	25 15 20	25 12 86
	DEC.	28 12 54			DEC	25 4 4	24 28 45
	- 20.		20 11 00			] ·	
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Menn Vernal Equinox.	Month.	Mean New Moon.	Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	Frue New Moon. Full Ecl.)
A.D. 323.		d. h. m.	d. h. m.	A.D. 326.		d. h. m.	d. h. m.
F.	JAN	23 16 49	23 11 27	в.	0	f 5 13 36	5 6 10
d. h. m.	FEB	22 5 33	21 23 51		JAN	20 7 59	20 19 14
21 3 31	MAR	23 18 17	23 13 9	March. $d. h. m.$	FEB	18 20 43	19 6 1
	APRIL	22 7 1	22 3 27	20 20 57	MAR	20 9 27	20 14 55
	MAY.	21 19 45	21 18 34		APRIL	18 22 11	18 22 35
	June .	20 8 29	20 9 57		MAY.	18 10 55	18 5 56
	July.	19 21 13	20 1 0		June .	16 23 39	16 14 0
!	Aug	18 9 57	18 15 10		0	(1181	2 2 5
	0	(2.4.19	1 14 42		JULY .	16 12 23	15 23 54
	SEPT	16 22 41	17 4 21		Aug	15 1 7	14 12 25
	Oct	16 11 25	16 16 38		SEPT	13 13 51	13 3 50
	Nov	15 0 9	15 4 14	•	Ocr	13 2 35	12 21 42
	DEC	14 12 53	14 15 21		Nov	11 15 19	11 16 47
					DEC	(11 4 3	11 11 35
324.	JAN	13 1 37	13 2 1		0	25 22 25	25 16 4
E.D.	FEB	11 14 21	11 12 20				
20 9 20	MAR	12 3 5	11 22 36	327.	JAN	9 16 47	10 4 39
	APRIL	10 15 49	10 9 23	Α.	FEB	8 5 31	8 19 2
	MAY .	10 4 33	9 21 19	21 2 46	MAR	9 18 15	10 6 31
	June .	8 17 17	8 10 <b>4</b> 9		APRIL	8 6 59	8 15 31
	JULY .	8 6 1	8 1 48		MAY .	7 19 43	7 22 53
ļ	0	123 0 23	22 21 4		JUNE .	6 8 27	6 5 35
	Aug	6 18 45	6 17 <b>4</b> 9		JULY.	5 21 11	5 12 44
	SEPT	5 7 29	5 10 3		Aug	4 9 55	3 21 25
ł	Oct	4 20 13	5 1 <b>4</b> 8		SEPT	2 22 39	2 8 37
1	Nov	8 8 57	<b>3</b> 16 30		Oct	2 11 23	$\begin{cases} 1 & 22 & 53 \\ 31 & 16 & 4 \end{cases}$
	DRC	2 21 41	3 5 51		Nov	1 0 7	(
						(30 12 51	30 11 13
		1 10 25	1 17 46		DEC	30 1 35	30 6 46
325.	JAN. C	1.1	16 3 28	000	-	00 14 00	00 1 0
c.		\80 28 9	81 4 17	328. G.F.	JAN.	28 14 20	29 1 3 27 16 44
	FEB	•••		Į.	FEB.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28 5 21
20 15 9	MAR.	1 11 54	1 13 39	20 8 85	1	20 4 22	26 15 7
2010	A	(81 0 98	30 22 20		APRIL	(10 22 54	10 17 22
	APRIL	29 13 22	29 7 4		Mar	14	25 22 52
	MAY .		28 16 48		MAY		24 5 89
	June .	i i	27 4 24		JUNE		23 12 36
	0	12 9 12	1		JULY	00 = 00	21 20 46
	July		1	1	AUG. SEPT.	00 00 40	20 7 3
	Aug.		25 10 25		OCT.	. 20 20 12	19 20 4
	SEPT.	1	24 8 59	1		4 3 18	
	Ocr.	. 23 17 46	23 21 52		Nov.	11	
		. 22 6 30	1		DEC.	70 70 04	
	DEC.	. 21 19 14	22 6 11		DEC.	10 10 24	
		1	1	11	1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 329.		d. h. m.	d. h. m.	A.D. 332.		d. h. m.	d. h. m.
E.	Jan	16 23 9	17 1 2	B.A.	JAN	14 14 18	14 9 52
March.	FEB	15 11 58	15 19 34		FEB	(13 3 2	12 21 88
d. h. m. 20 14 24	MAR.	17 0 37	17 12 13	d. h. m.	0	27 21 24	28 11 25
20 21 21	APRIL	(15 13 21	16 2 7	20 7 50	MAR	13 15 46	13 10 9
	0	30 7 43	30 0 25		APRIL	12 4 30	11 23 39
	MAY .	15 2 5	15 13 12		MAY .	11 17 14	11 14 18
	June .	13 14 49	13 22 4		June.	10 5 58	10 5 28
	JULY.	13 3 33	13 5 43		July.	9 18 42	9 20 50
1.	Aug.	11 16 17	11 13 14		Aug	8 7 26	8 11 43
	SEPT	10 5 1	9 21 33		0	23 1 48	22 13 15
	Oct	( 9 17 45	9 7 25		SEPT	6 20 10	7 1 41
	0	24 12 7	24 18 7		Oct	6 8 54	6 14 41
	Nov	8 6 29	7 19 23		Nov	4 21 38	5 2 51
	DEC	7 19 13	7 9 34		DEC	4 10 22	4 14 19
330.	JAN	6 7 57	6 1 44	333.	JAN	2 23 7	3 1 12
D.	FEB.	4 20 41	4 19 12	G.	FEB	( 1 11 51	1 11 30
20 20 13	MAR.	6 9 25	6 12 54		0	16 6 13	16 16 42
20 20 20	APRIL	(422 9	5 5 48	20 13 39	MAR	3 0 35	2 21 30
	0	19 16 31	19 14 17		APRIL	1 13 19	(1 740
	MAY .	4 10 53	4 20 44			(1 2 3	30 18 42
	June .	2 23 37	3 9 28		MAY.	30 14 47	30 7 12
1	JULY.	2 12 21	2 20 7		JUNE.	29 3 31	28 21 25
	1.	(115	1 5 20		JULY.	28 16 15	28 18 8
1	Aug	30 13 49	30 14 5		0	(12 10 37	12 4 43
1	SEPT	29 2 33	28 23 8		Aug	27 4 59	27 5 29
	Oct	28 15 17	28 9 9		SEPT	25 17 48	25 21 52
- [	Nov	27 4 1	26 20 25		Oct	25 6 27	25 18 25
	DEC	26 16 45	26 9 1		Nov	23 19 11	24 8 41
					DEC	28 7 55	28 16 25
331.	JAN	25 5 30	24 22 57				
c.	FEB	23 18 14	23 14 3	334.	JAN	21 20 40	22 8 35
	0	10 12 36	10 22 51	F.	FEB	20 9 24	20 13 20
21 2 2	MAR	25 6 58	25 5 58	20 19 28	MAR	21 22 8	21 22 1
	APRIL	23 19 42	23 22 4		APRIL	20 10 52	20 6 24
	MAY .	23 8 26	23 13 36		MAY .	19 23 36	19 15 20
	June .	21 21 10	22 3 54		JUNE .	18 12 20	18 1 46
	JULY.	21 9 54	21 16 41		JULY.	18 1 4	17 14 28
	Aug	19 22 38	20 4 8		Aug	16 18 48	16 5 36
	SEPT	18 11 22	18 14 45		SEPT	15 2 32	14 22 44
	Oct	18 0 6	18 1 8		Ост	14 15 16	14 16 49
	Nov	16 12 50	16 11 41		Nov	13 4 0	18 10 87
	DEC	16 1 34	15 22 35		DEC	12 16 44	18 8 2
	<u> </u>		1	ll .			

			O MALIAGONE	IVIL LIME.			
Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)(	True New Moon. O Full Ecl.)	Mcan Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon.  O Full Ecl.)
A.D. 335.		d. h. m.	d. h. m.	A.D. 338.		d. h. m.	d. h. m.
E.	JAN	11 5 28	11 17 16	Α.	Jan	7 20 38	7 19 24
March.	FEB	9 18 12	10 5 5	March. $d. h. m.$	FEB.	6 9 22	6 14 14
21 1 17	MAR	11 6 56	11 14 42	20 18 43	MAR.	7 22 6	8 7 51
	APRIL	9 19 40	9 22 48		APRIL	6 10 50	6 23 4
	MAY .	9 8 24	9 5 58		MAY.	5 23 34	6 11 30
	JUNE .	(7218	7 13 26		June .	4 12 18	4 21 26
	O	22 15 80	22 23 41		JULY.	4 1 2	4 5 41
	JULY.	7 9 52	6 22 15		Aug	2 13 46	( 2 13 17
	Aug.	5 22 86	5 9 22			(1 2 30	(31 21 14
	SEPT	4 11 20	8 28 25		SEPT	30 15 14	30 6 26
	Ocr	4 0 4	8 16 18		Ocr	30 3 58	29 17 25
	Nov	2 12 48	2 11 5		Nov	28 16 42	28 6 28
		2 1 82	2 6 20		DEC	28 5 26	27 21 35
	Drc. O	316 19 54	16 14 81				
		(81 14 16	•••	339.	JAN	26 18 11	26 14 17
000	_	٠	1 0 80	G.	FEB	25 6 55	25 7 46
336. р.с	JAN	(80 8 1	80 16 18	21 0 32	MAR	26 19 39	27 0 59
	FEB	28 15 45	29 5 8		0	(10 14 1	10 14 16
20 7 6	MAR.	29 4 29	29 15 12		APRIL	25 8 23	25 16 52
	APRIL	27 17 18	27 28 10		MAY .	24 21 7	25 6 <b>45</b>
	MAY .	27 5 57	27 5 59		JUNE .	23 9 51	23 18 31
	0	f11 0 19	11 8 1		JULY .	22 22 35	23 4 32
	JUNK.	125 18 41	25 12 45		Aug	21 11 19	21 13 38
	July.	25 7 25	24 20 81		SEPT	20 0 3	19 22 41
	Aug	28 20 9	28 6 28		0	§ 4 18 25	4 13 50
	SEPT	22 8 58	21 19 16		Ocr	19 12 47	19 8 22
	Ocr	21 21 87	21 11 6		Nov	18 1 31	17 19 3
	Nov.	20 10 21	20 5 28		DEC	17 14 15	17 6 56
	O	5 4 48	5 6 0				1
	DEC	19 28 5	20 1 1	340.	JAN	16 2 59	15 20 1
337.	JAN	18 11 49	18 20 5	F.E.	FEB	14 15 48	14 10 18
11.	FEB	17 0 88	17 18 7	20 6 21	MAR.	∫15 4 28	15 1 84
20 12 54	MAR	18 18 18	19 8 18		0	29 22 50	30 7 11
	APRIL	17 2 2	17 14 17		APRIL	18 17 12	18 17 25
	MAY.	f 16 14 46	16 22 52		MAY .	1	18 9 12
	0	£81 9 8	81 8 47		June .		12 0 12
	JUNE .	15 8 80	15 6 1		JULY .		
	JULY.	14 16 14	14 12 50		Aug.		
	Aug	18 4 58	12 20 28		SEPT.	1.3	
	SEPT	11 17 42	11 5 88		0	7 01 00	
	Ocr	11 6 26	10 17 19		Nov.		
	Nov		9 7 47		DEC.		
ł	0	124 18 82	21 20 44		DRU.	. 0 40 1	
l	DEC.	9 7 54	0 0 48	11	i	1	1

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 341.		d. h. m.	d. h. m.	A.D. 344.		d. h. m.	d. h. m.
March.	JAN	4 11 48	4 8 36	A.G.		2 2 58	2 14 41
d. h. m.	FEB	3 0 32	2 19 52	,	Jan. O	316 21 20	16 14 26
20 12 10	MAR	4 13 16	4 7 42			(31 15 42	•••
	APRIL	3 2 0	2 20 23	March.	FEB		1 3 41
	MAY .	2 14 44	2 10 11	d. h. m.	7.7	1 4 26	1 14 14
	<b>-</b>	1 3 28	1 1 1	20 5 36	MAR	₹30 17 10	30 22 50
	June.	\langle 30 16 12	30 16 26		APRIL	29 5 54	29 6 11
	JULY.	30 4 56	30 7 47		MAY.	28 18 38	28 13 18
1	Aυς	28 17 40	28 22 31		June.	27 7 22	26 21 14
	0	(12 12 2	11 22 34		0	(12 1 44	12 9 5
	SEPT	$\{27 \ 6 \ 24\}$	27 12 18		JULY.	₹26 20 6	26 7 5
	Oct	26 19 8	27 1 8		Aug	25 8 50	24 19 42
	Nov.	25 7 52	25 13 7		SEPT.	23 21 34	28 11 17
	DEC	24 20 36	25 0 18		Oct	23 10 18	23 5 23
					Nov.	21 28 2	22 0 44
342.	T	23 9 21	00 10 47		DEC.	21 11 46	21 19 42
C.	JAN		23 10 47		Disc		
20 17 59	FEB	21 22 5	21 20 40		0	568	5 0 47
20 11 33	MAR	23 10 49	23 6 24	345.	Jan	120 0 31	20 12 48
	APRIL	21 23 33	21 16 39	F.	FEB	18 13 15	19 8 6
	MAY .	21 12 17	21 4 9	20 11 25	MAR	20 1 59	20 14 24
,	JUNE .	20 1 1	19 17 23		APRIL	18 14 43	18 28 12
	JULY.	19 13 45	19 8 24		MAY.	18 3 27	18 6 24
	0	$\begin{cases} 3 & 8 & 7 \\ 18 & 2 & 29 \end{cases}$	3 4 48		June.	16 16 11	16 18 1
]	Aug		18 0 43		JULY.	16 4 55	15 20 12
1	SEPT	16 15 13	16 17 28		Aug	14 17 89	14 5 0
	Oct	16 3 57	16 9 46		SEPT	13 6 23	12 16 22
	Nov.	14 16 41 14 5 25	15 0 59		Ocr	12 19 7	12 6 47
1	DEC	14 5 25	14 14 38		Nov	11 7 51	11 0 2
1 1					DEC	10 20 35	10 19 11
343.	JAN	$\begin{cases} 12 & 18 & 9 \end{cases}$	13 2 34	346.	JAN	9 9 19	9 14 40
۵.	_ 0	127 12 31	27 11 15	E.	FEB.	7 22 3	8 8 47
20 00 4-	FEB	11 6 53	11 12 50	20 17 14	MAR	9 10 47	10 0 20
20 23 47	MAR	12 19 38	12 21 49		APRIL	7 28 31	8 12 48
	APRIL	11 8 22	11 6 4		MAY .	7 12 15	7 22 28
	MAY.	10 21 6	10 14 23		0	22 6 37	22 0 1
	June.	9 9 50	8 23 49		JUNE .	6 0 59	6 6 14
	JULY.	8 22 34	8 11 15		JULY.	5 13 43	5 18 9
	. 0	23 16 56	23 21 12		Aug	4 2 27	8 20 18
	Aug	7 11 18	7 1 13		SEPT	2 15 11	2 4 44
	SEPT	6 0 2	5 17 33		0	1 2 3 55	1 15 15
	Ост	5 12 46	5 11 30		Oct	\\ 31 16 89	81 4 22
	Nov	4 1 30	4 5 49		0	(15 11 1	15 18 42
	DEC	3 14 14	3 23 14	, '	Nov	30 5 28	29 20 8
I					DEC	29 18 7	29 13 58

Mean North Pertual Fellows   Month Pertual Fellows								
347.   D. Murch, d. h. m.   26 19 95   27 2 57     Murch, d. h. m.   26 19 95   27 2 57     Murch, d. h. m.   26 19 95   27 2 57     Murch, d. h. m.   26 29 4 27 2 97     Murch, d. h. m.   26 29 4 27 2 97     Murch, d. h. m.   26 29 4 27 2 97     Murch, d. h. m.   26 29 4 27 2 97     Murch, d. h. m.   26 29 4 27 2 97     Murch, d. h. m.   26 29 4 27 2 97     Murch, d. h. m.   26 21 4 27 9 9 2 20 16 29     Mar.   26 29 4 20 20 18     June.   24 22 82 2 25 5 21     Juny.   24 11 16 24 13 16     Aug.   28 3 0 0 22 21 8     Sept.   21 12 44 21 5 49     Oct.   21 12 92 20 15 58     Oct.   21 12 92 20 15 58     Oct.   19 2 56 18 18 2     Aprill   15 5 58 15 12 31     Oct.   19 2 56 18 18 2     Aprill   15 5 58 15 12 31     Oct.   10 40     Ana.   16 4 25 16 29 21 51     Max   14 18 37 15 3 26     Juny.   12 20 5 18 38 18     Aug.   18 7 21 13 16 19     July.   12 20 5 18 38 18     Aug.   18 7 21 13 16 19     July.   12 20 5 18 38 18     Aug.   1 18 49 11 12 59     Sept.   29 10 17 0 7 48     Nov.   7 28 1 7 18 0     Dec.   7 11 45 7 5 17     Aprill   41 4 11 4 12 55     Max   4 18 18 4 7 4     10 10 40     Mar.   6 0 29 5 17 88     Aug.   18 29 47     Aug.   18 29 47     Aug.   20 20 21 8     Aug.   20 20 21 8     Aug.   20 20 21 8     Aug.   20 20 21 8     Aug.   20 20 20 20 20 20 20 20 20 20 20 20 20	Vernal		Moon.	Moon.	Vernal		Moon.	Moon.
March,   d,   h,   m,   march,   d,   h,   m,   20 28 8 8 45   Feb.   26 19 36 27 2 5 7   March,   d,   h,   m,   26 21 4 27 9 9 0   11 15 26 11 7 36   March,   d,   h,   m,   26 21 4 27 9 9 0   (11 15 26 11 7 36			d. h. m.	d. h. m.			d. h. m.	d. h. m.
March   A   Feb		JAN	28 6 52	28 8 45		JAN	24 22 2	94 18 99
Mar.   28   82   28   19   21   March   April   26   21   4   27   9   9   0   0   11   15   26   11   7   36   Mar.   28   28   28   28   28   28   28   2	<b></b>	FEB.	26 19 36	l.			1	
APRIL O		MAR.						
O MAY . 26 9 48 26 20 18 JUNE . 21 12 42 28 22 25 5 21 JULY . 22 411 16 24 18 16 Ara 28 0 0 0 22 21 8 Sept 21 12 44 21 5 49 Oct 21 1 28 20 15 58 Oct 19 2 56 18 18 2 Sept 19 2 56 18 18 2 Sept 19 2 56 18 18 2 Sept 21 12 44 18 16 Oct 19 2 56 18 18 2 Sept 21 12 44 18 16 Sept 14 18 87 15 8 26 JULY . 12 20 21 18 20 1 18 58 JULY . 12 20 21 18 36 38 Sept 14 18 87 15 8 26 JULY . 12 20 21 18 20 1 18 59 Sept 14 18 87 15 8 26 JULY . 12 20 21 18 20 1 18 59 Sept 14 18 87 15 8 26 JULY . 12 20 5 18 8 18 Sept 14 18 87 15 8 26 JULY . 12 20 5 18 8 18 Sept 15 18 6 15 27 16 Sept 16 18 5 Sept 17 16 17 9 16 20 1 Sept 18 7 21 18 16 19 JULY . 12 20 5 18 8 18 Sept 18 7 21 18 16 19 JULY . 12 20 5 18 8 18 Sept 18 7 21 18 16 19 JULY . 12 20 5 18 8 18 Sept 18 7 21 18 16 19 JULY . 12 20 5 18 8 18 Sept 18 7 21 14 17 9 50 Sept 18 7 21 14 14 15 14 15 10 4 0 Aug 18 7 21 18 16 19 JULY . 12 20 5 18 8 18 Sept 18 18 18 4 7 4 Sept 18 18 18 4 7 4 Sept 18 18 18 4 7 4 Sept 18 18 18 4 7 4 Sept 18 18 18 4 7 4 Sept 18 18 18 Sept 28 19 5 20 20 4 JULY . 28 8 47 27 21 21 Sept 28 19 5 20 8 20 0 Oct 28 7 49 28 9 51 Nov 28 19 5 28 20 0 Oct 28 7 49 28 9 51 Nov 28 11 48 218 47 7 21 21 80 11 80 Sept 28 19 5 28 20 0 Oct 28 7 49 28 9 51 Nov 28 11 48 218 47 7 26 0 Sept 28 19 5 28 20 0 Oct 28 7 49 28 9 51 Nov 28 11 48 218 47 7 26 0 Sept 28 19 5 28 20 0 Oct 28 7 49 28 9 51 Nov 28 11 48 218 47 7 26 0 Sept 28 19 5 28 20 0 Oct 28 7 49 28 9 51 Nov 28 11 48 218 47 7 26 0 Sept 28 19 5 28 20 0 Oct 28 7 49 28 9 51 Nov 28 11 48 218 47 7 26 0 Sept 28 19 5 28 20 0 Oct 28 7 49 28 9 51 Nov 28 11 48 218 47 7 26 0 Sept 28 10 18 6 28 20 80 Sept 28 10 18 6 28 20 80 Sept 28 10 18 6 28 20 80 Sept 28 10 18 6 28 20 80 Sept 28 10 18 6 28 20 80 Sept 28 10 18 6 28 20 80 Sept 28 10 18 6 28 20 80 Sept 28 10 18 6 28 20 80 Sept 28 10 18 6 28 20 80 Sept 28 10 18 6 28 20 80 Sept 28 10 18 6 28 20 80 Sept 2							1) 1	
MAY . 28 0 48 26 20 18 JUNE . 24 12 16 24 13 16 Aug 28 0 0 0 22 21 8 Sept 21 12 44 21 5 49 Oct 21 1 28 20 15 58 Oct 21 1 28 20 15 58 Oct 19 15 10 19 18 50 Oct 19 2 56 18 18 2  348. C.B. FEB 16 4 25 16 2 47 20 4 52 MAR 16 17 9 16 20 1 April 18 72 1 18 16 17 9 MAY . 12 20 5 18 3 18 Aug 11 8 49 11 12 59 Sept 9 21 88 Nov 7 28 1 7 18 0 Dec 7 11 43 7 5 17  349. A. Feb 6 0 29 5 17 88 Nov 7 28 1 7 18 0 Dec 7 11 43 7 5 17  349. A. Feb 6 1 57 5 21 84 April 4 14 41 4 12 15 MAY . 4 8 25 4 4 88 June . 6 0 29 5 17 88 Aug 9 6 21 80 11 84 88 Aug 9 6 21 80 11 81 84 Aug 20 6 9 87 49 28 9 51 Nov 28 7 49 28 9 51 Nov 28 10 45 Nov 28 10 48 22 11 41 41 41 41 82 54 Sept 28 10 5 28 20 0 Oct 28 7 49 28 9 51 Nov 26 20 83 26 20 88 Nov 28 11 48 22 11 15 54 Nov 26 20 83 26 20 88 Nov 28 11 48 22 11 15 54 Nov 26 20 83 26 20 88 Nov 28 11 48 22 11 15 54 Nov 28 20 5 6 21 Nov 28 11 48 22 11 48 22 11 11 54 Juny . 21 20 6 21 8 Juny . 21 8 29 15 10 Juny . 10 19 18 50 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 84 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Sept 20 11 14 10 2 Feb 12 19 35 12 20 1 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Sept 20 11 18 10 10 40 April . 4 651 14 10 2 Feb 12 19 35 12 20 1 Oct 17 16 88 17 28 0 Nov 16 5 22 16 11 86 Sept 20 11 18 10 10 40 April . 4 18 41 12 17 9 50 Oct 17 14 16 81 17 9 16 20 1 Nov 16 5 22 18 18 18 Sept 20 10 14 18 87 11 18 16 19 Oct 17 16 81 17 18					10 10 10	l	1 - 1	
June. 24 22 82 25 5 21    Juny 24 11 16 24 18 16    Aug. 23 0 0 22 21 8    Sept. 21 12 44 21 5 49   Oct. 21 1 28 20 15 58   O 4 19 50 5 2 18   Nov. 19 2 56 18 18 2    348. C.R. Feb. 16 4 25 16 2 47   20 4 52 Mar. 16 17 9 16 20 1   Aprill (15 5 58 15 12 81   O 30 0 15 20 21 51   May 14 18 87 15 8 26   June 18 7 21 18 49 11 12 59   Sept. 9 21 83 9 22 12   Oct. 9 10 17 9 7 48   Nov. 7 28 1 7 18 5 0   Dec. 7 11 45 7 5 17    349. A. Feb. 4 18 18 4 7 4   E0 10 40 Mar. 6 1 57 5 21 84   Aprill 4 14 41 4 1 2 55   May 2 16 9 2 20 4   June 2 26 0 28 26 28 26 0 88   Nov. 26 20 28 26 20 28 26 0 88   Nov. 26 20 28 26 20 28 26 0 88   Nov. 26 20 28 26 20 28 26 0 88   Nov. 26 20 28 26 20 88   No			₹	- 1			1 1	
July . 24 11 16 24 18 16 Aug 28 0 0 22 21 8 Shift . 21 12 44 21 5 5 49 Oct 21 1 28 20 15 58 Oct 21 1 28 20 15 58 Oct 19 2 56 18 18 2  348. c.n. Feb 16 4 25 16 2 47 20 4 52 Mar 16 17 9 16 20 1 Aprill 18 37 15 8 26 June . 18 7 21 18 16 19 July . 12 20 5 18 8 18 Aug 11 8 49 11 12 59 Shift . 9 21 83 9 22 12 Oct 9 10 17 9 7 48 Nov 7 28 1 7 18 0 Dec 7 11 45 7 5 17  349. A				11				
Aug 28 0 0 22 21 8 Sept 21 12 44 21 5 49 Oct 21 1 28 20 15 58 Oct 19 15 10 19 18 50 Oct 19 2 56 18 18 2  348. C.R. Feb 16 4 25 16 247 20 4 52 Mar 16 17 9 16 20 1 April. 12 20 5 18 3 18 Aug 11 8 49 11 12 59 Sept 9 21 88 Aug 11 8 49 11 12 59 Sept 9 21 88 Nov 7 28 1 7 18 0 Dec 7 11 45 7 5 17  349. A. E. 10 10 40  Aug 6 1 57 Dec 7 11 45 7 5 17  349. A. E. 10 10 40  Aug 6 2 2 18 Aug 14 18 7 21 Aug 15 51 21 Oct 9 10 17 9 7 48 Nov 7 28 1 7 18 0 Dec 7 11 45 7 5 17  349. A. E. 10 10 40  Aug 10 11 15 10 19 18 50 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 15 18 6 15 23 16 Oct 15 18 6 15 23 16 Oct 15 18 6 15 23 16 Oct 15 18 6 15 23 16 Oct 10 10 17 9 7 48 Nov 7 28 1 7 18 0 Dec 7 11 45 7 5 17  349. A. E. 10 10 40  Aug 10 11 15 10 4 0 Aug 10 11 15 10 19 18 50 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 17 16 38 17 28 0 Oct 15 18 6 15 23 16  Aug 14 6 51 14 10 2 Feb {12 19 35 12 20 1 Oct 10 10 10 11 15 10 4 0 Aug 12 947 12 14 2 Jun 10 11 15 10 4 0 Aug 28 23 59 8 19 50 Oct 7 11 45 7 5 17  Aug 10 11 15 10 19 18 50 Oct 17 16 38 17 28 0 Oct								i
SEPT 21 12 44 21 5 49 Oct 21 1 28 20 15 58 O	,						1	
Oct 21 1 28 20 15 58 O							1 1	
O		_	i i			1 -	13	
Nov   19 14 12   19 4 1   19 2 56   18 18 2						_	1	
Dec.   19   2   56   18   18   2     Dec.   15   18   6   15   23   16			1.7					
348. C.R. FEB 17 15 41 17 9 50 16 4 25 16 2 47 MAR 16 17 9 16 20 1 APRIL O		l	-	1		1		
348. C.B. FEB 16 4 25 16 2 47  MAR 16 17 9 16 20 1  APRIL   (15 5 58 15 12 81  O   (30 0 15 29 21 51)  MAY . 14 18 87 15 3 26  JUNE . 18 7 21 18 16 19  JULY . 12 20 5 18 8 18  Aug 11 8 49 11 12 59  Nov 7 28 1 7 18 0  Dec 7 11 45 7 5 17  349. A. FEB   (6 0 29 5 17 88  JUNE . 18 18 18 4 7 4  APRIL   4 14 41 4 12 55  MAY . 4 8 25 4 4 88  JUNE . 2 16 9 2 20 4  JULY .   (2 4 58)  JULY .   (2 4 58)  JULY .   (2 4 58)  JULY .   (2 8 8 48)  Aug 80 6 21 80 11 48  Sept 28 19 5 28 23 0  Oct 28 7 49 28 9 51  Nov 26 20 88 26 7 80  Proc. 26 20 88 26 20 88  Proc. 26 20		DEC	19 2 56	18 18 2		DEC	19 18 6	15 23 16
348. C.B. FEB 16 4 25 16 2 47  MAR 16 17 9 16 20 1  APRIL   (15 5 58 15 12 81  O   (30 0 15 29 21 51)  MAY . 14 18 87 15 3 26  JUNE . 18 7 21 18 16 19  JULY . 12 20 5 18 8 18  Aug 11 8 49 11 12 59  Nov 7 28 1 7 18 0  Dec 7 11 45 7 5 17  349. A. FEB   (6 0 29 5 17 88  JUNE . 18 18 18 4 7 4  APRIL   4 14 41 4 12 55  MAY . 4 8 25 4 4 88  JUNE . 2 16 9 2 20 4  JULY .   (2 4 58)  JULY .   (2 4 58)  JULY .   (2 4 58)  JULY .   (2 8 8 48)  Aug 80 6 21 80 11 48  Sept 28 19 5 28 23 0  Oct 28 7 49 28 9 51  Nov 26 20 88 26 7 80  Proc. 26 20 88 26 20 88  Proc. 26 20					251	T	14 6 51	14 10 0
C.R.    Feb.   16   4   25   16   2   47     20   4   52   Mar.   16   17   9   16   20   1     April   (15   5   58   15   12   31     O   (30   0   15   29   21   51     Max   14   18   37   15   3   26     June   18   7   21   18   16   19     July   12   20   5   18   8   18     Aug.   11   8   49   11   12   59     Sept.   9   21   83   9   22   12     Oct.   9   10   17   9   7   48     Nov.   7   28   1   7   18   0     Dec.   7   11   45   7   5   17      349.   A.   Feb.   4   18   18   4   7   4     April   4   14   41   4   12   55     May   4   8   25   4   4   88     June   2   16   9   2   20   4     July   3   20   22   18     Mar.   6   1   57   5   21   34     April   4   14   41   4   12   55     May   2   4   58   2   10   34     Ray   30   7   19   29   22   28     June   2   4   5   3   10   18   58     June   2   6   9   2   20   4     July   2   6   9   2   20   4     July   2   6   9   2   20   4     Ray   3   7   19   29   22   28     June   2   6   9   2   20   4     July   2   6   9   2   20   4     Ray   3   7   19   29   22   28     June   2   6   9   7   28   0     April   12   1   4   14   1   5   10   4   0     April   12   1   12   1   10   11   15   10   4   0     Aug.   3   5   2   3   10   11   15   10   4   0     Aug.   3   5   2   3   3   12   3   3     Sept.   2   3   10   13   58     June   7   12   1   2   3   12   15   9     May   12   9   47   12   1   42     June   10   22   31   10   13   58     July   10   21   3   12   15   9     Aug.   3   5   4   4   0     Aug.   4   1   5   10   4   0     Aug.   5   10   11   15   10   4   0     Aug.   5   18   21   23   12   39     Sept.   7   12   43   7   12   41     Oct.   7   1   27   7   5   36     Nov.   5   14   11   5   21   42     Dec.   5   2   55   5   12   20      349.   340   340   340   340   340   340   340     April   6   10   11   15   10   4   0     Aug.   1   10   22   31   10   13   35     April   10   11   15   10   4   0     Aug.   1   10   22   31   10   13   35     April   10   11   15   10   4   0     A	348.	JAN.	17 15 41	17 9 50	I			
20   4   52   Mar.   16   17   9   16   20   1	1		1 1				1)	
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O	20 4 02		i "		20 22 18	1	1	
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Nov 7 28 1 7 18 0 Dec 7 11 45 7 5 17  349. Jan 6 0 29 5 17 88 A. Fen 4 18 18 4 7 4 TO 10 40 Mar 6 1 57 5 21 84 April 4 14 41 4 12 55 May . 4 8 25 4 4 88 June . 2 16 9 2 20 4 July . { 2 4 58 2 10 84 81 17 87 81 28 48 Aug 80 6 21 80 11 48 Sept 28 19 5 28 23 0 Oct 28 7 49 28 9 51 Nov 26 20 88 26 20 88 Nov 28 11 48 23 18 47 Nov 28 11 48 23 18 47 Nov 28 11 48 23 18 47		1				1	1	
Dec.   7 11 45   7 5 17   Dec.   5 2 55   5 12 20			1	1				
349. Jan 6 0 29 5 17 88 E.D. Feb 2 4 23 2 12 11 Feb 4 18 18 4 7 4 20 4 7 Mar 6 1 57 5 21 84 April 4 14 41 4 12 55 May . 4 8 25 4 4 88 June . 2 16 9 2 20 4 July . 28 20 8 25 0 Oct 28 7 49 28 9 51 Nov 26 20 88 26 20 88 Nov 23 11 48 23 18 47 70 10 40 Nov 26 20 88 26 20 88 Nov 23 11 48 23 18 47 70 10 40 Nov 26 20 88 26 20 88 Nov 23 11 48 23 18 47							1 2 2 2	
349. JAN 6 0 29 5 17 88 E.D. FEB 2 4 23 2 12 11 MAR 6 1 57 5 21 84 APRIL 4 14 41 4 12 55 MAY . 4 8 25 4 4 88 JUNE . 2 16 9 2 20 4 JULY . { 2 4 58 2 10 84 81 17 87 81 28 48 Sept 28 19 5 28 23 0 Oct 28 7 49 28 9 51 Nov 26 20 88 26 20 88 Nov 28 11 48 23 18 47 Nov 26 20 88 26 20 88 Nov 23 11 48 23 18 47 Nov 26 20 88 26 20 88 Nov 23 11 48 23 18 47		102.0.		, , ,		DEC.	5 2 55	5 12 20
A. Feb 4 18 18 4 7 4 20 4 7			0 0 00	F 45 00		JAN.	8 15 39	411
TO 10 40 MAR 6 1 57 5 21 84 APRIL 4 14 41 4 12 55 MAY . 4 8 25 4 4 8 8 JUNE . 2 16 9 2 20 4 JUNE . 2 16 9 2 20 4 B1 17 87 81 28 48 AUG 8 19 5 28 23 0 Oct 28 7 49 28 9 51 Nov 26 20 88 26 20 88 Nov 28 11 48 23 18 47 7 20 12 14 14 14 14 14 14 12 15 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15				1	E.D.	FEB.	. 2 4 23	2 12 11
APRIL 4 14 41 4 12 55 MAY . 4 8 25 4 4 88 JUNE . 2 16 9 2 20 4  JULY . { 2 4 58 2 10 84 81 17 87 81 28 48 82 11 48 82 11 48 83 11 48 84 84 84 84 95 11 48 84 84 95 11 84 84 84 95 11 84 84 84 95 11 84 84 84 95 11 84 84 84 95 11 84 84 84 95 11 84 84 84 84 84 84 84 84 84 84 84 84 84	1		1	I	20 4 7	MAR.	. 217 7	2 21 36
MAY . 4 8 25 4 4 88  June . 2 16 9 2 20 4  July . { 2 4 58 2 10 84 81 17 87 81 28 48 82 10 84 82 10 84 82 10 84 82 10 84 82 10 84 84 84 84 84 84 84 84 84 84 84 84 84	10 10 40		1			A ====		1 5 54
June . 2 16 9 2 20 4  July . { 2 4 58 2 10 84   July . 28 20 3 28 8 42   July . 28 8 47 27 21 21   Aug 80 6 21 80 11 48   Sept 28 19 5 28 23 0   Oct 28 7 49 28 9 51   Oct 28 7 49 28 9 51   Oct 26 20 88 26 20 88   Nov 26 20 88 26 20 88   Nov 28 11 48 23 18 47				1		APRIL	'  \(\)(30 18 35	80 13 52
July . { 2 4 58 2 10 84 8 17 87 81 28 48 8 47 27 21 21				1		MAY	. 30 7 19	29 22 28
July .     81 17 87 81 28 48       Aug     30 6 21 80 11 48       Sept     28 19 5 28 23 0       Oct     28 7 49 28 9 51       Nov     26 20 88 26 20 88       Nov     26 20 88 26 27 80         July .     22 3 47 21 21 21 21 21 21 21 21 21 21 21 21 21		JUNE.		1		June	. 28 20 3	28 8 42
Aug 80 6 21 80 11 48 8 8 12 5 15 Aug 8 19 5 28 23 0 8 19 5 28 23 0 9 17 26 2 18 19 5 25 6 4 19 19 19 19 19 19 19 19 19 19 19 19 19		JULY .	12			JULY	. 28 8 47	27 21 21
Sept.     28 19 5     28 23 0     Sept.     25 10 15     25 6 4       Oct.     28 7 49     28 9 51     Oct.     24 22 59     25 0 85       Nov.     26 20 88     26 20 88     Nov.     23 11 48     23 18 47			(91 11 91			0	∫12 8 9	12 5 15
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Nov. 26 20 88 26 20 88 Nov. 28 11 48 23 18 47						SEPT.	. 25 10 15	25 6 4
Thus 98 9 17 98 7 80		1				Oct.	. 24 22 59	25 0 85
DEC.   26 9 17   26 7 80     DEC.   23 0 27   28 11 27		1			11	Nov.	. 23 11 48	23 18 47
		DEC.	. 26 9 17	26 7 80		DEC.	. 23 0 27	28 11 27

1	1				<del></del>		
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 353.		d. h. m.	d. h. m.	A.D. 356.		d. h. m.	d. h. m.
March.	JAN	21 13 12	22 1 43	G.F.	JAN	19 4 22	19 3 15
d. h. m.	FEB	20 1 56	20 13 23	March. $d. h. m.$	FEB.	17 17 6	17 21 43
20 9 56	MAR	21 14 40	21 22 44	d. h. m. 20 3 22	MAR.	18 5 50	18 15 1
	APRIL	20 3 24	20 6 27		APRIL	16 18 34	17 6 5
-	MAY.	19 16 8	19 13 26		MAY.	16 7 18	16 18 32
	June .	18 4 52	17 20 45		JUNE .	14 20 2	15 4 36
	0	( 2 23 14	3 6 32		JULY.	14 8 46	14 13 7
	JULY .	17 17 36	17 5 30		Aug.	12 21 30	12 21 4
	Aug	16 6 20	15 16 41		SEPT.	11 10 14	11 5 26
	SEPT	14 19 4	14 6 52		Oct.	10 22 58	10 14 57
	Ост	14 7 48	13 23 56		Nov.	9 11 42	9 2 6
1	Nov	12 20 32	12 18 56		DEC.	9 0 26	8 15 6
	DEC	(12 9 16	12 14 23		220	0 0 20	0 10 0
	0	27 3 38	26 23 22	057	_	7 10 11	<b>-</b>
254	T	10.00 1		357. E.	JAN	7 13 11	7 5 53
354.	JAN Feb	10 22 1	11 8 38		FEB	6 1 55	5 22 5
20 15 45	MAR.	9 10 45	10 0 20	20 9 11	MAR	7 14 39	7 15 3
20 10 40	APRIL	9 12 13	11 13 2		APRIL	6 3 23	6 7 50
ł	MAY.	_	9 22 54		M	(20 21 45	20 21 58
	June .	9 0 57	9 6 42		MAY .	5 16 7	5 23 32
	O O	22 8 3	7 13 26 22 9 29		JUNE.	4 4 51 3 17 35	4 13 30
	July.	7 2 25			JULY.		4 1 32 2 11 59
	Aug.	5 15 9	$\begin{bmatrix} 6 & 20 & 12 \\ 5 & 4 & 9 \end{bmatrix}$		Aug	$\begin{cases} 2 & 6 & 19 \\ 31 & 19 & 3 \end{cases}$	31 21 35
	SEPT.	4 3 53	3 14 13		SEPT	30 7 47	30 7 6
	Oct.	3 16 37	3 3 9			(15 2 9	14 21 26
	Nov.	2 5 21	1 19 7		Ост	$\begin{cases} 10 & 2 & 3 \\ 29 & 20 & 31 \end{cases}$	29 17 9
ļ		c 1 18 5	1 13 28		Nov.	28 9 15	28 3 58
	DEC. O	16 12 27	16 14 59		DEC.	27 21 59	27 15 42
	_	(31 6 49	31 8 58		230	2. 21 00	21 10 42
355.	Jan			358.	Jan	26 10 43	00 4 00
A.	FEB.	29 19 33 28 8 17	30′ 3 52	D.	FEB.	24 23 27	26 4 23   24 18 4
20 21 33	MAR.	29 21 1	28 20 43	20 15 0	MAR.	26 12 11	
	APRIL	28 9 45	30 10 39			(10 6 33	
	MAY.	27 22 29	28 21 37 28 6 13		O   April	$\begin{cases} 10 & 0.55 \\ 25 & 0.55 \end{cases}$	10 14 57 25 0 6
	0	11 16 51			MAY .	24 13 39	24 15 39
	June .	26 11 13	11 10 19 26 13 27		JUNE .	23 2 23	23 6 45
	JULY.	25 23 57	25 20 27		July .	22 15 7	22 20 49
	Aug.	24 12 41	24 4 16		Aug.	21 8 51	21 9 40
	SEPT.	23 1 25	22 13 47		SEPT.	19 16 35	19 21 81
	Oct.	22 14 9	22 15 47		0	4 10 57	8 22 34
	Nov.	21 2 53	20 16 8		OCT.	19 5 19	19 8 44
	0	( 5 21 15	6 5 30		Nov.	17 18 3	17 19 41
	DEC	20 15 37	20 8 57		DEC.	17 6 47	17 6 33
			001				000
					1		l

Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.) ((	True New Moon. Tuil Ecl.)	Mean Verual Equinox.	Month.	Mean New Moon.	Full Ecl.)
A.D. 359. 6. March. d. h. m. 20 20 49	APRIL MAY . JUNE . JULY . AUG SEPT	14 8 16 (15 21 0 (80 15 22 14 9 44 13 22 28 12 11 12 11 23 56 10 12 40 (9 1 24	d. h. m. 15 17 22 14 4 18 15 15 27 81 4 51 14 8 88 13 16 52 12 7 29 11 22 58 10 14 41 9 5 58	A.D. 362. F. March. d. h. m. 20 14 15	JAN {	d. h. m. 12 10 42 1 27 5 4 1 10 23 26 1 12 12 10 11 0 54 10 13 38 9 2 22 2 { 8 15 6 } 23 9 28 7 3 50	d. h. m. 12 23 7 26 22 37 11 12 2 12 22 20 11 6 38 10 13 44 8 20 40 8 4 31 23 16 11 6 14 25
360. B.A. 20 2 88	O OCT NOV DEC  JAN FEB MAR APRIL MAY . JUNE .	28 19 46 8 14 8 7 .2 52 6 15 36 5 4 20 3 17 4 4 5 48 2 18 32 { 2 7 16 31 20 0 30 8 44	28 6 87 8 20 23 7 9 44 6 21 59 5 9 11 8 19 25 4 4 52 2 14 5 1 23 50 31 10 58 30 0 1	363. E. 20 20 4	SEPT OCT NOV DEC JAN. O FEB MAR APRIL MAY	5 16 34 5 5 18 3 18 2 3 6 46 (1 19 30 16 13 52 31 8 14  (1 20 58 31 9 42 29 22 26 29 11 10	5 3 8 4 18 55 3 13 12 3 8 43 2 3 46 16 9 28 31 20 49  2 10 59 31 22 6 30 6 45 29 13 51
<b>361.</b> G.	July . Aug Sept Oct Nov Dec	29 21 28 28 10 12 26 22 56 26 11 40 25 0 24 24 13 8 28 1 53 6 20 15 21 14 37	1	364. p.c.	JUNE . JULY . AUG SEPT OCT NOV DEC JAN FEB	27 23 54 27 12 38 26 1 22 24 14 6 24 2 50 22 15 84 22 4 18 20 17 3 19 5 47	27 20 28 27 8 45 25 12 44 24 0 16 23 14 47 22 8 5 22 8 9 20 22 28 19 16 23 20 7 46
20 8 20	FEB  MAR  APRIL  MAY .  JUNE .  JULY .  O  AUG  SEPT  OCT  NOV  DEC	28 8 21 21 16 5 21 4 49 19 17 89 19 6 17 { 8 0 86 17 19 1	28 5 51 21 18 41 20 21 89 19 6 50 18 18 11 3 4 46 1 17 8 12 5 16 0 47 0 15 19 5 3 14 13 49		MAR APRIL MAY O JUNE JULY. AUG SEPT OCT NOV O DEC	25 18 48	18 20 7 18 5 48 1 6 41 16 13 37 15 20 42 14 4 8 12 12 52 11 28 35 3 10 12 47 5 26 8 21

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal	Month.	Mean New	True New
			) (O F un 1501.	Equinox.	Month.	(O Full Ecl.	Moon. (O Full Ecl.
365. B. March. d. h. m. 20 7 42	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT	d. h. m.  9 1 52 7 14 36 9 8 20 7 16 4 { 7 4 48 { 21 23 10 5 17 32 5 6 16 3 19 0 2 7 44 { 1 20 28 { 31 9 12 { 15 3 34 { 29 21 56 } 20 15 40	d. h. m. 8 21 59 7 16 20 9 10 11 8 2 21 7 16 6 21 14 44 6 3 21 5 12 39 3 20 57 2 5 12 1 14 15 81 0 41 15 10 23 29 12 48	A.D. 368. F.E. March. d. h. m. 20 1 8	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG O SEPT OCT Nov	d. h. m. 6 17 2 5 5 46 5 18 80 20 12 52 4 7 14 8 19 58 2 8 42 1 21 26 81 10 10 29 22 54 {18 17 16 28 11 38 28 0 22 26 18 6	d. h. m. 6 16 24 5 8 1 5 18 44 21 2 45 4 1 2 8 18 28 2 8 19 1 18 24 81 10 18 80 2 1 18 5 10 28 17 14 28 7 24 26 20 24
	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG SEPT O NOV DEC  JAN FEB MAR APRIL MAY . JUNE . JULY . AUG	29 10 40  27 23 24  26 12 8  28 0 52  26 13 36  (11 7 58  (26 2 20)  24 15 4  21 3 48  22 16 32  21 5 16  20 18 0  (4 12 22  19 6 44  18 19 28  17 8 12  15 20 56  17 9 41  15 22 25  15 11 9  18 23 53  18 12 37  12 1 21	29 2 31  27 17 50 26 10 13 28 2 58 26 19 11 11 5 19 26 10 4 24 23 9 24 10 32 22 20 43 21 6 26 20 16 23 4 10 52 19 2 53 18 14 8  17 2 10 15 15 5 17 4 58 15 19 46 15 11 8 14 2 33 13 17 18 12 7 0	369. D. 20 6 57	DEC.  JAN. FEB.  MAR. APRIL MAY. JUNE. JULY. AUG.  OSEPT.  OCT.  NOV. DEC.  JAN. FEB. MAR. APRIL MAY  JUNE. JULY. AUG.	26 1 50 24 14 31 23 8 18	26 8 10  24 18 47  28 4 28  10 7 28  24 18 24  22 22 88  22 8 41  20 20 85  20 10 40  19 2 42  2 20 48  17 19 57  17 18 24  16 6 1  15 20 57  14 9 52  12 20 42  14 5 45  12 18 40  11 21 17  10 5 87  9 15 48  8 4 22
	SEPT OCT Nov DEC	10 14 5 10 2 49 8 15 33 8 4 17	10 19 86 10 7 22 8 18 55 8 5 37	,	SEPT OCT Nov DEC	28 10 58 7 5 15 6 17 59 5 6 48 4 19 27	28 18 6 6 19 49 6 18 84 5 8 27 5 2 59

Mean Vernal Equinox.	Month.	Menn New Moon. (O Full Ecl.)	True New Moon O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. Full Ecl.)
A.D. 371.		d. h. m.	d. h. m.	A.D. 374.		d. h. m.	d. h. m.
В,	JAN	3 8 11	3 19 48	E.	JAN	29 12 5	29 10 59
March.	FEB	1 20 56	2 10 4	March. $d. h. m.$	FEB		28 5 2
20 18 35	MAR	3 9 40	3 21 33	20 12 1	MAR.	29 13 33	29 22 0
	APRIL	1 22 24	2 6 38		APRIL	28 2 17	28 12 58
		(111 8	1 14 5		MAY,	27 15 1	28 1 28
	MAY.	30 23 52	30 20 52		June .	26 3 45	26 11 46
	June .	29 12 36	29 4 5		July.	25 16 29	25 20 37
	0	14 6 58	14 13 25		Aug	24 5 13	24 4 58
	JULY.	29 1 20	28 12 52		SEPT.	22 17 57	22 13 45
	Aug.	27 14 4	27 0 9		Ocr	22 6 41	21 23 35
	SEPT.	26 2 48	25 14 29		Nov.	20 19 25	20 10 51
-	0	25 15 32	25 7 48		Dec.	20 13 23	19 23 43
İ	NT.	24 4 16	21 2 53		DEC	20 0 0	10 20 90
}		28 17 0	23 22 24				
1	DEC	1		375.	JAN	18 20 54	18 14 7
	0	7 11 22	7 8 12	υ.	FEB	17 9 38	17 5 46
372.	JAN	22 5 44	22 16 36	20 17 50	MAR	18 22 22	18 22 9
A.G.	FEB	20 18 28	21. 8 13		APRIL	17 11 6	17 14 33
20 0 24	MAR	21 7 12	21 20 45		0	5 2 5 28	2 5 33
	APRIL	19 19 56	20 6 28		MAY .	(16 23 50	17 6 7
	MAY.	19 8 40	19 14 9		JUNE.	15 12 34	15 20 11
	JUNE .	17 21 24	17 20 52		July.	15 <b>1</b> 18	15 .8 34
	0	( 2 15 46	2 15 58	!!	Aug	13 14 2	13 19 31
	JULY.	17 10 8	17 3 44		SEPT	12 2 46	12 5 39
	Aug	15 22 52	15 11 51		Oct	(11 15 30	11 15 39
	SEPT	14 11 86	13 22 7		0	126 9 52	26 5 9
	Ост	14 0 20	13 11 13		Nov	10 4 14	10 1 58
	Nov	12 18 4	12 3 13		DEC	9 16 58	9 12 53
	DEC	(12 1 48	11 21 30				
	0	1 26 20 10	26 28 55	376.	JAN.	8 5 43	8 0 25
070	T	'	10 16 49	С.В.	FEB.	1	6 12 39
373.	JAN.	10 14 83	9 11 30	19 23 39	MAR.	1	7 1 44
	FEB.	9 3 17		10 20 00	APRIL	5 19 55	
20 6 12	MAR.	10 16 1	11 4 8		O	20 14 17	
	APRIL	9 4 45	9 17 57		MAY .		5 6 43
1	MAY .	1	9 4 52		JUNE .		3 22 7
	JUNE .	1.7			JULY		§ 13 19
	_ 0	22 0 35	1		JOLY	1 22 51	
	Jura .	1	6 20 56		Aug.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	Aug.	1			Q+		
	SEPT.		1		SEPT.	14 18 41	
	Ocr.	.   899	1		0	17	1
	Nov.	1			Oor.	20 1 47	
		( 1 10 87			Nov.	1 .	1
	DEC. C		4		DEC.	. 27 14 81	21 10 50
	1	(80 23 2	1 30 17 6	11 .	<u> </u>		1

				<del></del>			
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	Trne New Moon. (O Full Ecl.)
A.D. 377.		d. h. m.	d. h. m.	A.D. 380.		d. h. m.	d. h. m.
A.	JAN	26 3 15	26 2 2	E.D.	JAN	23 18 25	24 7 25
March. d. h. m.	FER	24 15 59	24 12 25		0	( 7 12 47	7 6 42
20 5 28	MAR	26 4 43	25 28 4	March.	FEB	22 7 9	22 20 11
	- 0	(923 5	10 12 16	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MAR	22 19 58	23 6 17
	APRIL	24 17 27	24 10 37	10 11 01	APRIL	21 8 37	21 14 18
	MAY.	24 6 11	28 23 32		MAY.	20 21 21	20 21 12
	June.	22 18 55	22 13 57		June.	19 10 5	19 4 2
	July.	22 7 39	22 5 33		JULY.	18 22 49	
		20 20 23	20 21 39				18 11 55
1	Aug.				0	2 17 11	2 23 18
	SEPT		19 13 31		Aug	(17 11 33	16 21 52
	0	7	3 14 49		SEPT	16 0 17	15 10 44
1 1	Ост	(18 21 51	19 4 32		Ocr	15 18 1	15 2 41
	Nov	17 10 35	17 18 21		Nov	14 1 45	13 21 6
	DEC	16 23 19	17 6 51		DEC	13 14 29	18 16 41
378.	JAN	15 12 4	15 18 1	381.	Jan	$\int 12 \ 3 \ 14$	12 11 44
G.	FEB	14 0 48	14 8 56	с.	0	<b>L26 21 36</b>	26 18 5
20 11 17	MAR	15 13 32	15 12 57		FEB	10 15 58	11 4 42
20 11 17	APRIL	14 2 16	13 21 41	20 4 43	Mar	12 4 42	12 18 48
	MAY .	13 15 0			APRIL	10 17 26	11 5 41
	JUNE.	12 3 44	13 7 1		MAY .	10 6 10	10 14 18
	JULY.		11 17 48		June.	8 18 54	8 21 17
		11 16 28	11 6 43		JULY.	8 7 38	8 8 59
	Aug	10 5 12	9 21 54		Aug	6 20 22	6 11 26
	SEPT	8 17 56	8 14 49		SEPT	5 9 6	4 20 88
	Oct	8 6 40	8 8 33		Oct	4 21 50	4 8 21
	Nov	6 19 24	7 1 57		Nov	8 10 84	2 22 58
	DEC	688	6 17 58		DEC	2 23 18	2 16 12
379.	JAN	4 20 58	5 8 1	382.	JAN.	(1122	1115
F.	FEB	(3 9 37	5 8 1 3 19 47	B.	JAN	<b>(81 0 46</b> )	81 6 8
	0	18 3 59	18 2 26		FEB	•••	
20 17 5	Mar.	4 22 21	5 5 32	20 10 32	Mr	( 1 13 31	1 28 50
	APRIL			40 10 52	MAR	81 2 15	81 15 2
	MAY.	3 11 5 2 23 49	3 13 46		Arril	29 14 59	80 8 19
	June .	1 12 33	2 21 13		MAY .	29 8 48	29 18 2
	OUME.	(1 1 17	$ \begin{cases} 1 & 4 & 56 \\ 30 & 13 & 57 \end{cases} $		0	(12 22 5	12 13 22
	JULY.	3 1			JUNE .	27 16 27	27 21 1
	_		30 1 14		July .	27 5 11	27 4 21
	O Aug	(14 8 23	14 12 26		Aug	25 17 55	25 12 6
		(29 2 45	28 15 22		SEPT.	24 6 89	23 21 8
	SEPT Oct	27 15 29	27 8 11		Oct.	28 19 28	28 8 5
		27 4 13	27 2 50		Nov.	22 8 7	21 21 19
	Nov	25 16 57	25 21 53		0	(7 2 29	7 12 2
	Dec	25 5 41	25 15 48		DEC.	21 20 51	
						Car 20 91	21 12 46
							1

				TVIL LIME.			
Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 383. A. March. d. h. m. 20 16 21	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEFT OCT NOV	d. h. m. 20 9 85 18 22 19 20 11 8 18 28 47 18 12 31 { 2 6 58 {17 1 15 16 18 59 15 2 43 18 15 27 18 4 11 {11 16 55 23 11 17	d. h. m. 20 5 54 18 28 47 20 17 15 19 9 13 18 22 56 1 21 51 17 10 22 16 20 0 15 4 41 18 18 28 11 9 26 26 18 34	A.D. 386. D. March. d. h. m. 20 9 47	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT Nov	d. h. m.  17 0 45  15 15 29  17 2 13  81 20 85  15 14 57  15 3 41  13 16 25  18 5 9  11 17 58  10 6 87  25 0 59  9 19 21  8 8 5	d. h. m.  17 1 12  15 11 24  16 21 35  ( 1 10 11  15 8 21  14 20 17  13 9 49  13 0 55  11 17 0  10 9 20  24 18 20  10 1 9  8 15 51
384. g.r. 19 22 10	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT O NOV DEC	9 18 24 8 7 8 8 19 52 7 8 86 6 21 20 21 15 42 5 10 4 4 22 48 8 11 82 2 0 16 { 1 18 0 81 1 44 { 14 20 6 { 29 14 28 29 8 12	9 10 58 8 1 46 8 17 84 7 9 50 7 1 47 21 12 48 5 16 89 5 6 1 8 17 50 2 4 85 1 14 50 81 1 10 14 18 45 29 11 51 28 28 0	387. c. 20 15 86	DEC  JAN FEB MAR O APRIL MAY . JUNE . JULY .  O SEPT OCT NOV DEC	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 5 10 6 17 1 5 3 25 6 12 38 21 14 39 4 21 11 4 5 58 2 15 40 { 2 3 23 81 17 26 30 9 42 14 4 55 29 3 24 28 21 21 27 14 22 27 5 88
385. s. 20 8 58	JAN. FEB. MAR. APRIL MAY. JUNE. JULY. AUG. SEPT. OCT. NOV. DEC.	27 15 56 26 4 41 27 17 25 26 6 9 25 18 58 24 7 87 28 20 21 22 9 5 20 21 49 20 10 88 18 28 17 18 12 1	27 10 40 25 28 1 27 12 16 26 2 88 25 17 88 24 9 2 24 0 8 22 14 18 21 8 81 20 15 51 19 8 29 18 14 86	388. n.a. 19 21 25	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	25 7 6 28 19 50 24 8 84 22 21 18 22 10 2 20 22 46 20 11 30 19 0 14 { 2 18 36 { 17 12 56 17 1 42 15 14 26 15 8 10	17 8 10 16 21 11 15 16 22

Mean Vernal Equinox.	Month.	Menn New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Menn New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 389.		d. h. m.	d. h. m.	A.D. 392.		d. h. m.	d. h. m.
G	JAN	13 15 55	14 4 3	D.C.	JAN	11 7 5	11 1 12
March. d. h. m.	FEB	12 4 39	12 18 15	March. d. h. m.	FEB	9 19 49	9 18 37
20 3 13	MAR	13 17 23	14 5 31	19 20 40	Mar	10 8 33	10 12 14
	APRIL	12 6 7	12 14 21		APRIL	8 21 17	9 4 55
	MAY .	11 18 51	11 21 36		MAY .	8 10 1	8 19 45
	June .	10 7 85	10 4 17		June .	6 22 45	7 8 22
	JULY.	9 20 19	9 11 30		July.	6 11 29	6 18 57
	Aug	8 9 3	7 20 20		Aug	5 0 13	5 4 13
	SEPT	6 21 47	6 7 45		SEPT	3 12 57	3 13 1
	Oct	6 10 31	5 22 15		Oct	3 1 41	2 22 13
	Nov	4 23 15	4 15 33		Nov	1 14 25	ſ 1 8 21
	Dec	<b>4 11</b> 59	4 10 50		T)	(1 3 9	(30 19 42
					Dec	(30 15 53	30 8 20
390.	JAN	3 0 44	3 6 21	,			
F.	o	17 19 6	17 16 58	393.	JAN	29 4 38	28 22 17
	FEB	1 13 28	2 0 28	в.	Fев	27 17 22	27 13 21
20 9 2	MAR	3 2 12	3 15 57	20 2 29	MAR.	29 6 6	29 5 11
	APRIL	1 14 56	2 4 20		APRIL	27 18 50	27 21 12
1	MAY .	§ 1 3 40	1 13 55		0	(12 13 12	12 13 6
	MAY.	30 16 24	30 21 34		MAY.	27 7 34	27 12 39
	June .	29 5 8	29 4 21		June .	25 20 18	26 2 53
	0	$\int 13 \ 23 \ 30$	13 22 30		July.	25 9 2	25 15 40
	July.	28 17 52	28 11 23		Aug	23 21 46	24 3 9
	Aug	27 6 36	26 19 43		SEPT.	22 10 30	22 13 50
	SEPT	25 19 20	25 6 12		Oct	21 23 14	22 0 17
,	Ocr	25 8 4	24 19 25		0	( 5 17 86	5 13 0
	Nov	23 20 48	23 11 24		Nov	20 11 58	20 10 55
	DEC	23 9 32	23 5 33		Dec	20 0 42	19 21 50
		67 954	7 0 40				
201	_ 0	7 3 54 21 22 16	7 8 48 22 0 33	394.	JAN	18 13 26	18 9 5
391. E.	JAN	20 11 0		A.	FEB.	17 2 10	16 20 48
	FEB	21 23 44	20 18 57 22 11 24	20 8 18	MAR.	18 14 54	18 9 15
20 14 51	MAR.	20 12 28	21 1 6	20 0 10	APRIL	17 3 38	16 22 45
	APRIL	20 12 23	20 12 1		0	(1 22 0	2 6 8
	MAY .	18 13 56	18 20 48		MAY.	16 16 22	16 13 16
1	June.	(3 8 18	2 23 31		June.	15 5 6	15 4 82
-	JULY.	18 2 40	18 4 28		JULY.	14 17 50	14 19 55
	AUG.	16 15 24	16 12 3		Aug.	13 6 84	13 10 50
	SEPT.	15 4 8	14 20 30		SEPT.	11 19 18	12 0 52
	Oct.	14 16 52	14 6 34		Oct.	(11 8 2	11 13 55
	Nov.	13 5 36	12 18 41		0	26 2 24	25 14 81
	DEC.	(12 18 20	12 18 41		Nov	9 20 46	10 2 7
	DEC.	27 12 42	27 23 0		DEC.	9 9 80	9 13 35
							2000

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 395.		d. h. m.	d. h. m.	A.D. 398.		d. h. m.	d. h. m.
G.	Jan	7 22 14	8 0 23	c.	JAN	4 13 25	5 0 0
d. h. m.	FEB	6 10 59	6 10 37	March.	FEB	(329	3 15 35
20 14 6	MAR	7 23 43	7 20 30	d. h. m.	0	(17 20 31	17 14 42
	April	6 12 27	6 6 36	20 7 33	Mar	4 14 53	5 4 13
	0	[21 6 <b>4</b> 9]	21 19 36		APRIL	3 3 37	3 14 4
1	MAY .	6 1 11	5 17 38		MAY.	2 16 21	2 21 54
	June .	4 13 55	4 6 11		Terren	(155	1 4 41
	July.	4 2 39	3 20 28		JUNE.	(30 17 49	30 11 28
	Aug	2 15 23	2 12 14		JULY.	30 6 33	29 19 25
1	SEPT.	(147	1 4 47		0	<b>√14</b> 0 55	14 6 32
	DEPI.	(30 16 51	30 21 13		Aug	(28 19 17	28 5 31
	0	§ 15 11 13	14 23 12		Sept	27 8 1	26 18 31
	Ocr	₹30 5 85	30 12 48		Ocr	26 20 45	26 10 35
	Nov	28 18 19	29 3 2		Nov.	25 9 29	25 5 4
	Dec	28 7 3	28 15 41		Dec	24 22 13	25 0 38
				399.	JAN	23 10 58	23 19 35
396.	JAN	26 19 48	27 2 44	в.	0	(7. 5.20	7 2 35
F.E.	FEB	25 8 32	25 12 19		FEB	21 23 42	22 12 26
19 19 55	MAR	25 21 16	25 20 55	20 13 22	MAR.	23 12 26	24 2 17
	APRIL	24 10 0	24 5 13		APRIL	22 1 10	22 13 8
	MAY .	23 22 44	23 14 9		MAY.	21 13 54	21 21 37
	JUNE.	22 11 28	22 0 41		JUNE .	20 2 38	20 4 43
	JULY.	22 0 12	21 13 32		JULY .	19 15 22	19 11 84
	Aug	20 12 56	20 4 50		Aug.	18 4 6	17 19 15
	SEPT	19 1 40	18 22 7		SEPT.	16 16 50	16 4 41
	Ocr	18 14 24	18 16 18		Oct	16 5 84	15 16 35
}	Nov	17 3 8	17 10 8		Nov.	14 18 18	14 7 14
	DEC	16 15 52	17 2 28		DEC.	14 7 2	14 0 21
1							
397.	JAN	15 4 86	15 16 83	400.	JAN.	12 19 46	12 18 57
D.	FEB.	(18 17 20	14 4 11		FEB	11 8 80	11 18 41
	0	28 11 42	28 9 54	19 19 11	MAR.	11 21 14	12 7 7
20 1 44	MAR	15 6 4	15 13 38		APRIL	10 9 58	10 22 9
	APRIL	13 18 48	13 21 81		MAY .	9 22 42	10 10 25
	MAY.	18 7 82	13 4 42		JUNE .	8 11 26	8 20 14
	June .	11 20 16	11 12 11		0	28 5 48	22 20 4
	JULY.	11 9 0	10 21 6		JULY.	8 0 10	8 4 26
	Aug	( 9 21 44	9 8 25		Aug.	6 12 54	6 12 5
	0	{21 16 6	24 20 11		SEPT.	5 1 38 4 14 22	4 20 6 4 5 82
	SEPT	8 10 28	7 22 41		Ocr		2 16 41
	Ост	7 28 12	7 15 45		Nov		
	Nov	6 11 56	6 10 89		D== 0	2 15 50 17 10 12	2 5 58 17 20 89
	DEC	6 0 40	6 5 56		DEC. O	17 10 12	81 21 8
				,	{	" ""	

Mean Vernal Equinos.	Month.	Mean New Meen. ( ) Full Rel.)	True How Minus. (*) Full Ect )	Mean Vernal Equines	M-sath	Mean New Mean ( Full Rel )	True New Monday Pall Rel.
A.D. 401.	** 1 1 4	d. h. m.	d. h. m.	A.D. 404.	1	d A. m	d A. ma
٧.	*	1 4 86	***	\$ \$0; \$4 = a = b	Jam.,	Jr 4 Jr	24 9 55
	JAM	180 17 19	100 la 43	March.	Fon. ,	26 21 13	28 19 42
March.	Fun		,,,	10 16 20	Man.	<b>37</b> 9 57	27 6 21
d. h. m. 20 0 50	MAN.	f 1 11 11 11	1 7 H		1 1	111 4 19	11 17 28
and the tan		1361 IH 47	81 0 12		Aran.	125 22 41	25 15 81
	Arnii.	20 7 111	29 45 57		MAT	25 11 25	2. 8 0
	MAY .	120 pm 15	20 6 44		Jens.	31 0 6	23 16 24
	(3	(12 14 87	12 6 0		Jers.	क्षा १५ स्व	21 7 11
	Jimm.	(32 H M)	27 17 24		Ata .	22 1 32	21 28 tm
	July .	का या सा	27 8 21		Harr.	20114 21	30 10 4m
	Aru.	25 10 27	25 12 14			1 6 4 40	4 21 41
	Herr.,	23 23 11	28 21 48		Ory, ,	120 8 6	20 0 10
	(ht	28 11 55	ya 7 at		N	16 15 49	15 0 33
	Nav	32 0 Bu	31 IN 19		Date.	14 4 33	14 18 67
	0	6 19 1	7 9 45	408.	Jan .	16 17 17	17 1 46
	Day.	(21 18 28	81 11 14	A	For .	15 6 1	15 11 64
402.	JAN	20 2 7	19 19 20	20 0 15	Man	(16 18 45	10 (3) 48
16.	Fun	18 14 51	IN 9 84	***		ai ia :	ni 21 87
20 6 48	MAR.	90 8 85	90 0 47		Arnie	16 7 (20)	15 4 51
	Arnit	1× 16 10	18 16 81		May .	14 20 18	11 18 9
	May .	18 5 81	18 H 15		J	18 # 57	12 22 84
	O	( 1 28 26	1 20 12		Jeer .	12 21 41	12 10 12
	Juna.	116 17 47	16 28 12		Ara.	11 10 25	11 0 21
	July .	16 6 81	16 12 54		Hary.	0 23 0	0 16 ta
	Avo	14 10 15	15 1 14		()	(24 17 A1	21 10 10
	HEPT	18 7 59	18 12 83		Ch. 1	0 11 64	u 10 67
	Oct	12 20 48	12 21 19		Nov.	, A O 37	# 6 (8)
	Nov	111 9 27	11 10 0		Des.	7 18 21	7 24 44
	0	201 8 40	26 2 40	408.	Jan.	6 2 6	
	Date	10 23 11	10 20 49	a.	Fra .	: 6 2 6 : 4 14 50	011 8
403.	JAN.	9 10 86	9 7 40	20 6 4	Man.	( 6 8 84	6 13 14
D.	Fun.	7 28 40	7 10 2	2047 63 db	oms a va · .	30 21 50	20 21 47
20 12 87	MAR.	9 12 94	0 6 40		Arail	4 16 19	4 21 40
	Armil	BIH	7 19 27		Mar .	4 6 2	4 4 55
	MAY .	7 18 62	7 9 14		June .	2 17 to	2 12 1
	June .	6 2 36	6 0 g			7 2 6 80	1 30 3
	July .	5 15 20	8 18 20		July.	AN 19 14	a1 6 8
	Aug	4 4 4	4 6 54		Ara.	1	29 la 61
	Supt	2 16 4H	2 21 41		<b>7. Fab.</b> ,	(14 2 20	14 5 10
	0	1 2 5 32	2 11 82		Harr	20 20 13	24 10 41
	Oct. ,	1 20 40 40	11024		(kv.	204 9 206	24 4 56
	Nov. ,	,	80 12 22		Nev.	20 22 10	y7 0 y0
	Dac.		20 28 14		š	26 10 54	20 19 1A
NATIONAL PROPERTY OF STREET	and the second	1 Composition bears are		+		. marrier 2000 3000	<b>2001年 27 皇名</b> 等

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 407.		d. h. m.	d. h. m.	A.D. 410.		d. h. m.	d. h. m.
March.	JAN	24 23 39	25 12 12	в.	0	(62027	7 7 40
d. h. m.	FEB	23 12 23	24 2 16	Monoh	JAN	21 14 49	21 9 15
20 11 52	MAR	25 1 7	25 13 21	March. $d. h. m.$	FEB	20 3 33	20 2 10
	APRIL	23 13 51	23 22 0	20 5 19	MAR	21 16 17	21 19 17
	MAY .	23 2 35	23 5 6		APRIL	20 5 1	20 11 39
	JUNE.	21 15 19	21 11 43		MAY.	19 17 45	20 2 7
	July.	21 4 3	20 19 0		JUNE .	18 6 29	18 15 14
	Aug	19 16 47	19 3 58		JULY.	17 19 13	18 2 11
	SEPT	18 5 31	17 15 32		Aug	16 7 57	16 11 53
	Oct	17 18 15	17 6 10		SEPT	14 20 41	14 21 12
	Nov	16 6 59	15 23 36		Ост	14 9 25	14 6 49
	DEC	15 19 43	15 18 48		Nov	12 22 9	12 17 13
					DEC	12 10 53	12 4 34
408.	JAN	(14 8 27	14 14 12				
E.D.	0	29 2 49	29 1 36	411.	JAN	10 23 37	10 16 56
	FEB	12 21 11	13 8 10	<b>A.</b>	FEB	9 12 21	9 6 21
19 17 41	MAR.	13 9 55	13 23 30	20 11 8	MAR	11 1 5	10 20 47
	APRIL	11 22 39	12 11 45		APRIL	9 13 49	9 12 4
	MAY.	11 11 23	11 21 16		MAY .	§ 9 2 33	9 8 43
	June .	10 0 7	10 4 56		0	23 20 55	23 20 34
	July.	( 9 12 51	9 11 53		June .	7 15 17	7 19 6
	0	24 7 13	24 5 7		JULY.	7 4 1	7 9 35
1	Aug	8 1 35	7 19 8		Aug	5 16 45	5 22 49
	SEPT.	6 14 19	6 3 42		SEPT	4 5 29	4 10 53
	Oct	6 3 3	5 14 25		Ocr	3 18 13	3 22 8
	Nov.	4 15 47	4 3 44		Nov	$\int 2 657$	2 9 2
	DEC	4 4 31	3 19 39		0	17 1 19	16 20 53
					DEC	ſ 1 19 <b>4</b> 1	1 19 53
409.	Jan .	( 2 17 16	2 13 32	,	DEC	(31 8 25	81 6 45
C,	JAN .	17 11 38	17 17 36	410	<b>T</b>	00 01 10	00 17 10
	FRB.	1 6 0	1 8 15	412. G.F.	JAN	29 21 10	29 17 40
19 23 30	MAR.	2 18 44	8 2 19		FEB	28 9 54	28 4 50
10 20 00	TUAR.	(1 7 28	1 18 31	19 16 57	MAR	28 22 38	28 16 42   27 5 38
	APRIL	80 20 12			APRIL	27 11 22	27 5 38   12 13 39
	MAY .	30 8 56	1 8 7 80 19 8		M	12 5 44	
	JUNE .	28 21 40	29 4 7		MAY .	27 0 6	26 19 48
	O O	(13 16 2	18 6 15		JUNE .	25 12 50 25 1 34	25 10 59
	JULY.	28 10 24	28 12 4		JULY.	25 1 34 23 14 18	25 2 37 23 18 0
	Aug.	26 23 8	26 20 2		Aug	22 3 2	22 8 38
	SEPT.	25 11 52	25 4 51		SEPT.	21 15 46	21 22 16
	Oct	25 0 36	24 15 11		Oct	(510 8	4 22 41
	Nov.	23 13 20	23 3 21		Nor	20 4 30	20 10 54
	DEC.	23 2 4	22 17 28		Nov		19 22 31
	J				DEC	19 17 14	15 22 51
	l	1	1	1	ι	I	1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 413.		d. h. m.	d. h. m.	A.D. 416.		d. h. m.	d. h. m.
E.	JAN	18 5 58	18 9 12	B.A.	JAN	15 21 8	16 8 4
March.	FEB.	16 18 42	16 19 3		FEB	(14 9 52	14 23 36
d. h. m. 19 22 45	MAR.	18 7 27	18 4 28	March.	0	29 4 14	28 22 35
10 11	APRIL	16 20 11	16 14 3	d. h. m. 19 16 12	MAR	14 22 36	15 12 8
	0	( 1 14 33	2 2 47		APRIL	13 11 20	13 21 44
	MAY.	16 8 55	16 0 36		MAY .	13 0 4	13 5 25
	JUNE .	14 21 39	14 12 51		June .	11 12 48	11 12 6
	JULY.	14 10 23	14 3 6		JULY .	11 1 32	10 18 57
	Aug	12 23 7	12 19 3		Aug	§ 9 14 16	9 8 1
	SEPT	11 11 51	11 12 1		0	124 8 38	24 18 51
	Ост	∫11 0 <b>3</b> 5	11 4 59		SEPT	8 3 0	7 13 17
	0	$l_{25}$ 18 57	25 7 42		Oct	7 15 44	7 2 26
	Nov	9 13 19	9 21 6		Nov	6 4 28	5 18 85
	DEC	9 2 3	9 11 42		Dec	5 17 12	5 18 8
414.	Jan	7 14 47	8 0 27	417.	Jan	4 5 57	4 8 83
D.	FEB	6 3 31	6 11 18	G.	FEB	ſ 2 18 41	3 8 19
20 4 34	MAR	7 16 15	7 20 34		0	17 18 8	17 10 57
	APRIL	6 4 59	6 4 44	19 22 1	MAR	4 7 25	4 19 58
1.	MAY.	5 17 43	5 12 38		APRIL	2 20 9	8 9 41
	June .	4 6 27	3 21 15		MAY.	ſ 2 8 53	2 20 28
5	JULY.	3 19 11	3 7 36		MAL.	\81 21 87	(1 4 56
	Aug	§ 2 7 55	1 20 26		JUNE .	30 10 21	80 12 9
		131 20 39	81 11 55		JULY.	29 28 5	29 19 14
	SEPT	30 9 23	30 5 30		Aug	28 11 49	28 8 12
	Oct.	29 22 7	30 0 6		SEPT.	27 0 83	26 12 58
	Nov.	28 10 51	28 18 19		Ocr	26 13 17	26 0 56
	DEC	27 23 35	28 10 53		Nov.	25 2 1	24 15 84
	l _				DEC	24 14 45	24 8 29
415.	JAN	26 12 20	27 1 0		_		
C.	FEB	25 1 4	25 12 28	418. F.	JAN.	28 8 80	28 2 47
00 10 00	MAR.	11 19 26 26 13 48	11 17 12		FEB.	21 16 14	21 21 8
20 10 23	APRIL	25 2 32	26 21 37 25 5 12	20 3 50	MAR	28 4 58	28 14 14   22 5 8
	MAY.	24 15 16	25 5 12 24 12 9		APRIL	21 17 42 21 6 26	22 5 8 21 17 25
	JUNE .	23 4 0	22 19 29		MAY . June .	19 19 10	20 8 25
	JULY.	22 16 44	22 4 23		JULY.	19 19 10	19 11 54
	Aug.	21 5 28	20 15 46		Aug.	17 20 88	17 19 56
	0	f 4 23 50	5 4 5		SEPT	16 9 22	16 4 26
	SEPT	19 18 12	19 6 10		Oct	15 22 6	15 14 6
	Oct.	19 6 56	18 23 25		Nov.	14 10 50	14 1 24
	Nov	17 19 40	17 18 33	İ	DEC	ſ18 28 84	18 14 29
	DEC	17 .8 24	17 13 59		0	28 17 56	29 5 14
	1	<u> </u>					

Mean Vernal Equines,	Month,	Mean Now Mean, ( ) Full Ect.)	True New Moon. O Full Ecl.)	Moan Vernal Equinox.	Month.	Mean New Moon, () Full Ecl.)	True New Moon. (O Full Ed.)
A.D. 419,		d. h. m.	d. h. m.	A.D. 422.	s we. s. 186	d. h. m.	d. h. m.
n. March,	Jan	12 12 18	12 5 17	A. Manuali	JAN	9 8 28	9 8 24
il. h. m.	Fan.	11 1 2	10 21 28	March.	FER	7 16 12	7 18 80
20 9 gs	MAR.	12 18 46	12 14 20	20 8 6	MAR.	9 4 56	9 8 51
	Arail	11 2 201	11 7 0		Armi.	7 17 40	7 12 59
	May .	10 15 14	10 22 85		O	(22 12 2	28 0 85
	Лияв.	1 0 8 58	11 12 27		MAY .	7 6 24	6 22 44
		120 22 20	23 12 10		Junk.	5 19 8	5 9 58
	Jur	H 16 42	9 0 25		July.	5 7 52	4 28 8
,	Avo	7 6 26	7 10 58		Aug.	8 20 86	8 14 15
	Harr.	A 18 10	5 20 83		SEPT	2 9 20	2 6 59
	Chr.	5 6 54	5 6 11		0 0	1 22 4	2 0 20
- Land	Nov Dec	1 11 10 114	8 16 18		Ocr. C	16 16 26 81 10 48	16 6 9 81 17 16
) i	. O	1114 2 44	8 8 18 18 10 55		NY	20 28 82	80 8 52
1	1		17 10 00		Nov.	20 12 16	29 22 89
					1761.	W., YW 10	20 22 UU
420.	JAN	1 21 7	1 14 59	423.	JAN	28 1 1	28 10 24
	Fan	(BL D M	81 8 89	o.	FKH. ,	26 18 45	26 20 17
10.15.07	Man.	20 22 36	20 17 17 30 7 58	20 8 54	MAR	28 2 29	28 4 48
19 15 27	Arnit	20 0 H	28 28 12		, O	11 20 51	12 4 29
e reformed in	MAY .	24 12 47	24 14 48		Arnii	(20 15 18	26 12 28
	( O	(12 7 1)	12 8 87		MAY.	26 8 57	25 20 26
	Jess.	127 1 81	27 5 48		Junn.	24 16 41	24 5 41
	Jun.	26 14 15	20 19 51		Juny.	24 5 25 22 18 9	28 17 11
•	Ara.	25 2 M	25 H 44		Aug Sept	21 6 58	21 0 10
	Nurs.	28 15 48	28 20 8H			(6 1 15	5 21 46
CONSTR	Oct	23 4 27	28 7 Mi		Ocr.	20 10 87	20 18 87
Mary Company	Nov	21 17 11	21 18 56		Nov.	19 8 21	10 18 23
4	0	( 0 11 88	6 10 80		DEC.	18 21 5	19 7 2
	Dac	(21 8 65	21 5 46	***			
# 				424.	JAN.	17 9 49 15 22 88	17 22 27 16 11 10
421.	JAN.	19 18 40	19 16 88	19 14 48	Fan Mar	(16 11 18	16 21 18
<b>b</b> .	Fra	14 7 24	th 8 20	*** ***	O	81 5 40	81 4 46
19 21 16	Man	19 20 H	10 14 Mi		APRIL	15 0 2	15 5 26
* * * * * * * * * * * * * * * * * * *	Arnit	1H H 62	18 2 88		MAY.	14 12 46	14 12 27
	Mar .	17 21 191	17 15 54		Jumm.	18 1 80	12 19 28
\$	Juna .	16 10 20	16 6 82		1	12 14 14	12 8 21
i i	July .		15 22 5			11 2 bH	
A STATE OF THE STA	Ava	14 11 4H				( 0 15 42	
	Herr		18 5 12		g	24 10 4	
1	Oct		12 10 40		Oct	1.1	ì
	Nov				Nov	7 17 10	4
	Dac	10 14 41	10 21 16		Dice.	7 6 54	7 8 21
1	1	Ę	1	9	1		!

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 425.		d. h. m.	d. h. m.	A.D. 428.		d. h. m.	d. h. m.
D.	JAN	5 18 38	6 3 18	A.G.	JAN	(3 9 48	8 1 54
March.	FEB	4 7 22	4 20 10		0	18 4 10	18 16 11
d. h. m. 19 20 31	MAR	5 20 6	6 10 7	March.	FEB	1 22 32	1 17 12
	APRIL	4 8 50	4 21 2	d. h. m. 19 13 58	MAR	2 11 16	2 9 32
	MAY.	3 21 34	4 5 31			(100	1 2 11
İ .	JUNE .	2 10 18	2 12 32		APRIL	30 12 41	30 18 17
	_	(123 2	1 19 11		May .	30 1 28	30 9 5
	JULY.	31 11 46	31 2 34		June.	28 14 12	28 22 6
	AUG	30 0 30	29 11 44		0	(13 8 84	12 20 32
	SEPT	28 13 14	27 23 28		JULY.	{28 <b>2</b> 56	28 9 27
1	Ocr	28 1 58	27 14 13		Aug	26 15 40	26 19 41
	Nov	26 14 42	26 7 38		SEPT	25 4 24	25 5 80
	DEC	26 3 26	26 2 46		Ост	24 17 8	24 15 88
					Nov	23 5 52	28 2 8
426.	Jan	24 16 11	24 22 0		DEC	22 18 36	22 18 24
c.		(8 10 33	8 10 10	400		01 7 01	01 1 00
	O Feb	23 4 55	23 15 44	429. F.	JAN	21 7 21	21 1 26
20 2 20	MAR.	24 17 39	25 6 54		FEB	19 20 5	19 14 18
20 2 20	APRIL	23 6 23	23 19 3	19 19 47	MAR	21 8 49	21 4 7
	MAY.	22 19 7	23 4 35		APRIL	19 21 83	19 18 52
	JUNE .	21 7 51	21 12 20		MAY .	19 10 17	19 10 14
	JULY.	20 20 35	20 19 28		· O	3 4 39	3 4 1
	0	(4 14 57	4 11 50		JUNE.	(17 28 1	18 1 86
	Aug.	19 9 19	19 3 0		JULY.	17 11 45	17 16 21
	SEPT.	17 22 3	17 11 53		Aug	16 0 29	16 6 5
	Oct.	17 10 47	16 22 48		SEPT	14 18 18	14 18 44
	Nov.	15 23 31	15 12 11		Oct	14 1 57	14 6 84
ı	DEC.	15 12 15	15 3 56		Nov	{12 14 41 {27 9 8	12 17 58
1		-0	10 0 00		0	(27 9 8 12 8 25	27 4 58 12 4 52
427.	T	(14 0 50	19 01 00	400	DEC		
421. B.	Jan	$\begin{cases} 14 & 0.59 \\ 28.19.21 \end{cases}$	13 21 29 29 2 17	430. E.	JAN	10 16 9	10 15 85
	FEB	12 13 43	12 15 46		FEB	9 4 58	9 2 7
20 8 9	MAR.	14 2 28	12 15 46 14 9 29	20 1 36	MAR	10 17 87	10 12 46
1 20 0 0	APRIL	12 15 12	13 1 28		APRIL	9 6 21	9 0 2
ì	MAY.	12 13 12	12 15 3		MAY .	$\begin{cases} 8.19 & 5 \end{cases}$	8 12 26
	JUNE.	10 16 40	11 2 12		_ 0	123 13 27	23 20 58
	JULY.	(10 5 24	10 11 28		JUNE.	7 7 49	7 2 19
	0	24 23 46	24 13 4		JULY.	6 20 88	6 17 28
	Aug	8 18 8	8 19 47		Aug	5 9 17	5 9 21
	SEPT.	7 6 52	7 4 9		Sept	8 22 1	4 1 15
	Oct.	6 19 36	6 13 21		Oct	8 10 45	3 16 80
	Nov.	5 8 20	4 23 54		Nov	$\begin{cases} 1 & 28 & 29 \\ 1 & 17 & 14 \end{cases}$	2 6 42
	DEC.	4 21 4	4 12 5		0	(16 17 51	16 6 57
		~	- 14 U		DEC	1 12 13	1 19 41
	· · · · · · · · · · · · · · · · · · ·			l		81 0 57	81 7 24

n al ox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
). 1.		d. h. m.	d. h. m.	A.D. 434.		d. h. m.	d. h. m.
ch.	JAN	29 13 41	29 17 53	G.	JAN	26 4 52	26 16 2
. 112.	FEB	28 2 26	28 3 23		FEB	24 17 36	25 7 26
' 21	MAR	29 15 10	29 12 19	March. $d. h. m.$	0	(11 11 58	11 6 21
	APRIL	28 3 54	27 21 24	20 0 51	MAR	26 6 20	26 19 45
	0	∫12 22 16	13 9 52		APRIL	24 19 4	25 5 17
l	MAY .	27 16 38	27 7 34		MAY.	24 7 48	24 12 51
Ì	June .	26 5 22	25 19 33		June .	22 20 32	22 19 34
1	July.	25 18 6	25 9 47		JULY.	22 9 16	22 2 31
	Aug	24 6 50	24 1 57		Aug	20 22 0	20 10 46
	SEPT	22 19 34	22 19 20		0	(4 16 22	4 21 16
	Oct	22 8 18	22 12 52		SEPT.	19 10 44	18 21 14
	0	(6 2 40	5 16 19		Ocr	18 23 28	18 10 32
	Nov	20 21 2	21 5 27		Nov.	17 12 12	17 2 43
	DEC.	20 9 46	20 20 20		DEC.	17 0 56	16 21 5
							20 22 0
2.	JAN.	10 00 01	10 0 7	405	_	75 70 40	17 10 01
В.	FEB.	18 22 31	19 9 7	435. F.	JAN	15 13 40	15 16 21
3 13		17 11 15	17 19 46		FEB	14 2 24	14 10 58
0 10	MAR.	17 23 59	18 4 41	20 0 40	0	128 20 46	28 19 12.
	APRIL	16 12 48	16 12 29	20 6 40	MAR	15 15 9	16 3 21
	MAY.	16 1 27	15 20 1		APRIL	14 3 53	14 16 58
	June.	14 14 11	14 4 24		MAY .	18 16 37	14 3 41
	JULY.	14 2 55	13 14 38		JUNE.	12 5 21	12 12 15
	Aug	12 15 39	12 3 29		JULY.	11 18 5	11 19 40
	SEPT.	11 4 28	10 19 9		Aug	10 6 49	10 3 1
	Oct	10 17 7	10 18 3	<b>\</b>	0	25 1 11	24 23 34
	Nov	9 5 51	982		SEPT	8 19 33	8 11 18
	DEC	8 18 85	9 2 31		Oct	8 8 17	7 21 16
				11	Nov.	6 21 1	6 9 26
33.	JAN	7 7 19	7 19 18		DEC	6 9 45	5 23 59
L.	FEB	5 20 8	6 9 16			į	
9 2	MAR.	7 8 47	7 20 88	436.	JAN	4 22 29	4 16 36
	0	122 8 9	22 0 22	E.D.	FEB	8 11 18	8 10 26
	APRIL	5 21 81	6 5 27	19 12 29	MAR	3 23 57	4 4 28
	MAY .	5 10 15	5 12 48		APRIL	2 12 41	2 21 12
	JUNE .	8 22 59	8 19 82	11	3.0	f 2 1 25	2 12 0
	JULY .	8 11 48	8 2 50		MAY .	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(1 0 22
	1.	(2 0 27	1 11 45		JUNE .	80 2 58	
	A.ug	81 18 11	80 28 14		JULY .	29 15 87	29 19 27
	0	(15 7 88	15 12 4		Aug.	28 4 21	28 8 54
	SEPT.	1	29 13 48		SEPT.	1	26 12 48
	Our.	29 14 89	29 7 18	II	Oct.	26 5 49	25 22 47
	Nov.	28 8 28	28 2 29		Nov.	24 18 88	24 10 9
	DEC.	27 16 7	27 21 59		DEC.	. 24 7 17	
		'		1			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. )(Q Full Ecl.)
A.D. 437.		d. h. m.	d. h. m.	A.D. 440.	<u> </u>	d. h. m.	d. h. m.
c.	0	(8 1 89	8 13 43	G.F.	Jan.	20 11 12	20 17 12
	JAN.	22 20 1	22 13 28	March. $d.$ $h.$ $m.$	FEB.	18 28 56	19 2 58
March. $d.$ $h.$ $m.$	FEB	21 8 46	21 5 5	19 11 44	MAR.	19 12 40	19 11 58
19 18 17	MAR	22 21 30	22 21 24		APRIL	18 1 24	17 20 32
	APRIL	21 10 14	21 13 42		0	( 2 19 46	3 7 37
1	MAY .	20 22 58	21 5 10		MAY .	17 14 8	17 5 50
	JUNE.	19 11 42	19 19 11		June .	16 2 52	15 16 43
	0	∫ <b>4</b> 6 <b>4</b>	3 19 25		July.	15 15 36	15 5 45
ļ	JULY.	19 0 26	19 7 30		Aug	14 4 20	18 21 5
	Aug	17 13 10	17 18 28		SEPT	12 17 4	12 14 10
	SEPT	16 1 54	16 4 41		Oct	12 5 48	12 8 1
	Oct	15 14 38	15 14 47		0	27 0 10	26 14 47
	Nov	14 3 22	14 1 12		Nov.	10 18 32	11 1 26
	DEC	13 16 6 28 10 28	13 12 9		DEC	10 7 16	10 17 25
	0	(28 10 28	28 19 2	441.	JAN	8 20 0	9 7 17
438.	JAN	12 4 50	<b>11 23 4</b> 0	E.	FEB	7 8 44	7 18 54
в.	FEB	10 17 34	10 11 51	19 17 33	MAR	8 21 28	9 4 29
20 0 6	MAR	12 6 19	12 0 53		APRIL	7 10 12	7 12 81
	APRIL	10 19 8	10 14 53		0	22 4 34	22 11 12
	MAY.	10 7 47	10 5 48		MAY .	6 22 56	6 19 56
	JUNE.	8 20 31	8 21 11		JUNE.	5 11 40	5 8 89
	0	28 14 53	23 11 4		July.	5 0 24	4 12 46
	JULY .	8 9 15	8 12 23		Aug	8 13 8	8 0 15
	SEPT.	6 21 59 5 10 43	7 2 53		SEPT	2 1 52	1 14 85
	Oct.	4 23 27	5 16 20   5 4 51			( 1 14 86	1 7 86
	Nov.	3 12 11	3 16 38		Oct. O	316 8 58	16 6 28
	DEC	(3 0 55	3 3 53		NT	81 8 20	81 2 28
	0	17 19 17	17 18 42		Nov Dec	29 16 4 29 4 48	29 21 27
	_	( 1 13 39	1 14 44	440			29 15 16
439.	JAN	31 2 23	31 1 11	442.	JAN	27 17 33	28 6 44
<b>A.</b>	FEB		31 1 11	19 23 22	FEB.	26 6 17	26 19 17
00 = ==		(115 7	1 11 28	10 20 22	MAR.	27 19 1	28 5 11
20 5 55	MAR	81 8 51	30 22 3		A 7777	11 18 28 26 7 45	11 11 89
	APRIL	29 16 35	29 9 85		APRIL MAY		26 18 4
	MAY .	29 5 19	28 22 31		JUNE .	25 20 29 24 9 13	25 19 54 24 2 45
	JUNE.	27 18 3	27 13 1		JULY .	28 21 57	24 2 45   28 10 45
	JULY.	27 6 47	27 4 42		Aug.	22 10 41	21 20 54
	Aυσ	25 19 31	25 20 53		SEPT.	20 28 25	20 9 58
	SEPT	24 8 15	24 12 49		0	5 17 47	5 21 42
	Oct	23 20 59	24 3 52		OCT	20 12 9	20 2 8
	Nov.	22 9 43	22 17 42		Nov.	19 0 58	18 20 42
	DEC.	21 22 27	22 6 8		DEC.	18 13 37	18 16 18
1							-5 25 16

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 443.		d. h. m.	d. h. m.	A.D. 446.		d. h. m.	d. h. m.
C.	JAN	17 2 22	17 11 15	F.	JAN	(13 17 32	13 10 19
March. d. h. m.	FEB	15 15 6	16 4 1		0	28 11 54	29 0 37
20 5 10	MAR	17 3 50	17 17 48	March. $d. h. m.$	FEB	12 6 16	12 1 6
	APRIL	15 16 34	16 4 35	19 22 37	MAR.	13 19 0	13 16 49
	MAY .	15 5 18	15 12 58	20 22 01	APRIL	12 7 44	12 9 0
	June .	13 18 2	13 19 58		MAY.	11 20 28	12 0 51
	JULY.	13 6 46	13 2 43		June .	10 9 12	10 15 40
	Aug	11 19 30	11 10 18		JULY.	(921 56	10 4 57
	SEPT.	10 8 14	9 19 40		O C	24 16 18	24 3 48
	Ост	9 20 58	9 7 36			8 10 40	8 16 49
	Nov.	8 9 42	7 22 24		Aug		7 3 36
		7 22 26			SEPT		
	DEC	1 22 20	7 15 47	ļ	Oct	6 12 8	6 13 56
					Nov	5 0 52	5 0 21
444.	JAN	6 11 10	6 10 39		DEC	4 13 36	4 11 6
B.A.	FEB	5 4 28 54	5 5 37	447.	JAN	8 2 20	2 22 15
1	0	19 18 16	19 18 35	E.	FEB	1 15 4	1 9 52
19 10 59	MAR	5 12 38	5 23 7	20 4 26	MAR.	8 3 48	2 22 9
	APRIL	4 1 22	4 14 7		APRIL	1 16 32	1 11 22
	MAY.	3 14 6	4 2 13			(1 5 16	1 1 36
1	JUNE .	2 2 50	2 11 47		MAY .	(30 18 0	30 16 41
ĺ		(11584	1 19 44			(14 12 22	14 11 26
	July.	81 4 18	31 3 8		June .	29 6 44	29 8 4
	0	(14 22 40	14 18 38		July.	28 19 28	28 23 8
1	Aug	29 17 2	29 11 0		Aug.	27 8 12	27 13 24
İ	SEPT	28 5 46	27 20 11		SEPT.	25 20 56	26 2 42
	Oct	27 18 30	27 7 18		Oct.	25 9 40	25 15 4
	Nov.	26 7 14	25 20 42	ļ	Nov.	23 22 24	24 2 45
ł	DEC	25 19 58	25 12 18		1	6 8 16 46	
i					DEC.	23 11 8	1
445.	T	24 8 43	04 5 00	<b> </b>		'	
445. G.	JAN	1	24 5 22	448.	JAN.	21 23 53	22 0 22
"	0	1)	8 10 52	D.C.	FEB	20 12 37	20 10 29
10 10 10	FEB	22 21 27	22 28 10	19 10 15	MAR	21 1 21	20 20 36
19 16 48	MAR.	24 10 11	24 16 30		APRIL	19 14 5	19 7 17
l	APRIL	22 22 55	28 8 18		MAY .	19 2 49	18 19 15
	MAY.	22 11 89	22 21 53		0	5 2 21 11	3 4 18
	June.	21 0 28	21 9 18		JUNE .	<b>17 15 83</b>	1
1	Jurx.	20 13 7	20 18 50		JULY .	17 4 17	17 0 2
	. 0	§ 4 7 29	8 19 58		Aug	15 17 1	15 16 13
	Aug.	19 1 51	19 8 85		SEPT	14 5 45	14 8 38
	SEPT.	17 14 85	17 12 24		Oor	13 18 29	14 0 29
1	Oct	17 8 19	16 21 57		Nov.	(12 7 13	12 15 13
	Nov.	15 16 3	15 8 42		0	27 1 35	26 14 19
	DEC	15 4 47	14 20 48		DEC	11 19 57	12 4 29
1		1	i l		!	1	ŧ

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 449.		d. h. m.	d. h. m.	A.D. 452.		d. h. m.	d. h. m.
B. March.	JAN	10 8 42	10 16 15	F.E.	JAN	7 23 51	8 5 54
d. h. m.	FEB	8 21 26	9 2 31	March. $d. h. m.$	Fев	6 12 35	6 23 51
19 16 3	MAR	10 10 10	10 11 35	19 9 30	MAR	7 1 20	7 15 8
	APRIL	8 22 54	8 20 2		0	21 19 42	21 14 1
	MAY.	(8 11 38	8 4 42		APRIL	5 14 4	6 3 17
	0	[28 6 0	23 16 52		MAY .	5 2 48	5 12 43
	June.	7 0 22	6 14 31		JUNE .	3 15 32	3 20 16
	July.	6 13 6	6 2 21		JULY.	3 4 16	3 3 4
	Aug	5 1 50	4 16 35		A	(117 0	1 10 11
	SEPT	3 14 34	3 9 2		A.ug	(31 5 44	30 18 41
1	Ocr	3 3 18	3 2 51		0	(15 0 6	15 4 50
}	Nov	(1162	1 20 50		SEPT	<b>29 18 28</b>	29 5 21
	0	16 10 24	16 1 2		Oct	29 7 12	28 18 47
	DEC	§ 1 4 46	1 13 51		Nov	27 19 56	27 10 56
	DEC	(30 17 30	31 4 55		DEC	27 8 40	27 5 7
450.	Jan	29 6 14	29 17 38	453.	Jan	25 21 25	26 0 6
Α.	FEB	27 18 58	28 4 4	D.	FEB	24 10 8	24 18 20
19 21 52	MAR	29 7 42	29 12 37		0	(11 4 30	11 3 19
	APRIL	27 20 26	27 20 6	19 15 19	MAR	25 22 52	26 10 35
	MAY .	27 9 10	27 3 23		APRIL	24 11 36	25 0 4
	JUNE .	25 21 54	25 11 35		MAY .	24 0 20	24 10 51
	JULY.	25 10 38	24 21 46		JUNE .	22 13 4	22 19 34
	Aug	23 23 22	23 10 40		JULY .	22 1 48	22 3 14
	SEPT	22 12 6	22 2 32		Aug	20 14 32	20 10 55
	Oct	22 0 50	21 20 43		0	(4 8 54	4 6 39
	Nov	20 13 34	20 15 57		SEPT	19 3 16	18 19 31
	DEC	20 2 18	20 10 41		Oct	18 16 0	18 5 45
1					Nov	17 4 44	16 18 1
451.	JAN.	18 15 2	19 3 26		DEC	16 17 28	16 8 25
G.	FEB.	17 3 46	17 17 24				
20 3 41	MAR.	18 16 31	19 4 30	454.	JAN.	15 6 13	15 0 41
		( 2 10 53	2 7 28	C.	FEB.	13 18 57	13 18 2
	APRIL	17 5 15	17 13 10	19 21 8	MAR.	15 7 41	15 11 32
	MAY .	16 17 59	16 20 18		APRIL	13 20 25	14 4 4
	JUNE .	15 6 43	15 2 58		MAY.	13 9 9	13 18 46
1 .	JULY .	14 19 27	14 10 15		June .	11 21 58	12 7 16
1	Aug.	13 8 11	12 19 17		JULY.	11 10 37	11 17 48
	SEPT.	(11 20 55	11 6 54		Aug.	9 23 21	10 3 6
	0	26 15 17	26 20 12		SEPT.	8 12 5	8 11 59
	Ocr	11 9 39	10 21 37		Oct.	8 0 49	7 21 19
	Nov	9 22 23	9 15 10		Nov.	6 13 33	6 7 85
	DEC	9 11 7	9 10 27		DEC.	6 2 17	5 19 4
	<u> </u>						

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 455.		d. h. m.	d. h. m.	A.D. 458.		d. h. m.	d. h. m.
В.	JAN	(4151	4 7 41	E.	JAN		1 14 57
353	0	19 9 23	19 22 7	March.	FEB	(90 10 99	31 1 52
d. $h$ . $m$ .	FEB	3 3 45	2 21 35	d. h. m.		(1 7 39	1 11 18
20 2 56	MAR	4 16 29	4 12 36	19 20 23	MAR	30 20 28	30 19 46
	APRIL	3 5 13	3 4 22		APRIL	29 9 7	29 4 0
	MAY .	2 17 57	2 20 18		0	<b>/14</b> 3 29	14 14 31
	June.	∫ 1 6 41	1 11 40		MAY.	128 21 51	28 12 57
	JUNE.	₹30 19 25	(1 1 52		June.	27 10 35	26 23 35
	0	∫15 13 47	15 2 44		JULY.	26 23 19	26 12 34
	July .	/30 8 9	(30 14 37		Aug	25 12 3	25 4 5
	Aug	28 20 53	29 2 8		SEPT	24 0 47	23 21 30
	SEPT	27 9 37	27 12 55		Oct	23 13 31	23 15 47
	Ocr	26 22 21	26 23 28		Nov	$\begin{cases} 7 & 7 & 53 \\ 22 & 2 & 15 \end{cases}$	6 23 30 22 9 37
	Nov	25 11 5	25 10 8		DEC.	21 14 59	22 1 52
	DEC	24 23 49	24 21 4		DEC	21 14 00	22 1 02
		( 8 18 12	9 8 4	459.	JAN	20 3 44	20 15 50
456.	О Јан	23 12 34	9 8 4	D.	FEB	18 16 28	19 3 16
A.G.	FEB.	22 1 18	21 19 57	20 2 12	MAR	20 5 12	20 12 33
19 8 45	MAR.	22 14 2	22 8 21		APRIL	18 17 56	18 20 19
10 0 40	APRIL	21 2 46	20 21 49		0	§ 3 12 18	3 17 50
	MAY.	20 15 30	20 12 19		MAY .	118 6 40	18 3 25
	June .	19 4 14	19 8 85		JUNE.	16 19 24	16 10 56
	0	6 3 22 36	8 18 82		JULY.	16 8 8	15 19 58
	JULY.	18 16 58	18 19 1		Aug.	14 20 52	14 7 29
	Aug	17 5 42	17 9 58		SEPT.	18 9 86	12 21 58
	SEPT	15 18 26	16 0 8		Ocr		12 15 18 27 15 7
	Ocr	15 7 10	15 18 9		Nov.	11 11 4	11 10 14
	Nov	13 19 54	14 1 22		DEC.	10 28 48	11 5 81
	DEC	(13 8 38	13 12 51				
	0	28 8 0	28 2 33	460.	JAN	9 12 88	9 28 28
	_			C.B.	FEB	8 1 17	8 14 52
457.	JAN	11 21 23	11 28 86	19 8 1	MAR	8 14 1	9 8 16
F.	FEB	10 10 7	10 9 43		APRIL	7 2 45	7 12 56
19 14 34	MAR	11 22 51	11 19 80		M. T	21 21 7	21 18 26
	APRIL	10 11 35	10 5 82		MAY . JUNE .	6 15 29	6 20 88 5 8 21
	MAY.	10 0 19	9 16 84		JULY.	4 16 57	4 10 18
	JUNE.	8 13 3	8 5 10		Aug.	8 5 41	2 18 16
	JULY.	8 1 47	7 19 88		SEPT.	1 18 25	(1 4 84
	Aug	6 14 81	6 11 25		DEFT.	(178	13 00 47 40
	SEPT	5 8 15	5 4 8	,	Ocr. C		140 0 0
	Ocr.	4 15 59	4 20 84			(80 19 58	
	Nov.	8 4 48 2 17 27	3 12 11 3 2 28		Nov.		29 4 40
	DEC	2 17 27	8 2 28		DEC	28 21 21	29 0 14
	i		<u> </u>		<u> </u>		1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. (O Full Ecl.)
						(O 1 am 1301.)	(C) Full Ect.)
A.D. 461.		d. h. m.	d. h. m.	A.D. 464.		d. h. m.	d. h. m.
March.	JAN	27 10 5	27 19 3	E.D. March.	JAN	25 1 15	24 18 39
d. h. m.	FEB	25 22 49	26 11 41	d. h. m.	0	§ 8 19 37	9 8 53
19 13 49	MAR	27 11 33	28 1 20		FEB	\text{\lambda}23 13 59	23 8 50
-	APRIL	26 0 17	26 12 15	19 7 15	MAR	24 2 43	23 23 59
	MAY.	25 13 1	25 20 19		APRIL	22 15 27	22 15 41
	JUNE.	24 1 45	24 3 24		MAY.	22 4 11	22 7 20
	JULY.	23 14 29	23 10 <b>1</b> 9		June.	20 16 55	20 22 14
	Aug	22 3 13	21 18 7		JULY.	20 5 39	20 11 54
	SEPT	20 15 57	20 3 45		. 0	(401	3 11 12
	Oct	20 4 41	19 15 51		Aug	18 18 23	19 0 16
	Nov	18 17 25	<b>18 6 4</b> 0		SEPT	17. 7 7	17 11 38
	DEC	18 6 9	17 23 53		Ocr	16 19 51	16 22 28
					Nov	15. 8 35	15 9 14
462.	JAN	16 18 54	16 18 30	1	DEC	14 21 19	14 20 4
G.	FEB	15 7 38	15 13 9	405	T	10:10 0	, , ,
	0	(220	2 2 53	465.	JAN Feb	13 10 3	13 7 1
19 19 38	Mar	16 20 22	17 6 22		MAR.	11 22 47	11 18 11
	APRIL	15 9 6	15 21 12	19 13 4		13 11 32	13 5 54
	MAY.	14 21 50	15 9 18		APRIL MAY.	12 0 16	11 18 30
	JUNE .	13 10 34	13 19 1		JUNE.	11 13 0	11 8 16 9 23 7
	JULY.	12 23 18	13 3 12		O O	K	
	Aug	∫11 12 2	11 10 55		JULY.	9 14 28	24 18 55 9 14 86
	0	126 6 24	26 1 36		Aug	8 3 12	8 6 3
, .	SEPT	100 46	9 19 8		SEPT.	6 15 56	6 20 58
	Ост	9, 13 30	9 4 39		Oct	6 4 40	6 10 47
	Nov	8 2 14	7 15 57		Nov.	4 17 24	4 23 41
	DEC	7 14 58	7 5 16		DEC.	(4 6 8	4 11 40
İ					0	19 0 80	18 20 54
463.	JAN	6 3 43	5 20 30				
F.	FEB	( 4 16 27	4 13 10	466.	JAN	2 18 53	2 22 46
	0	19 10 49	19 19 17		FEB.	1 7 37	1 9 2
20 1 27	MAR	6 5 11	6 6 28	19 18 58	MAR.	2 20 21	2 18 42
	APRIL	4 17 55	4 23 25	·	APRIL	1 9 5	1 4 17
	MAY .	4 6 39	4 15 2			(30 21 49	80 14 28
	June.	2 19 23	3 4 41		MAY.	30 10 33	30 2 2
	JULY.	ſ 2 8 7	2 16 17		_ 0	14 4 55	14 11 38
	JOLX.	lgr 50 21	(1 2 18		JUNE.	28 23 17	28 15 26
	0	∫15 15 13	15 3 4		JULY.	28 12 1	28 6 41
	Aug	l30 9 35	(30 11 30		Aug	27 0 45	26 28 18
}	SEPT	28 22 19	28 20 47		SEPT	25 13 29	25 16 8
	Oct	28 11 3	28 6 41		Oct	25 2 13	25 8 84
	Nov	26 23 47	26 17 34		Nov	28.14.57	28 28 46
	DEC	26 12 31	26 5 34		Dra	8 9 19	7 28 48
	1				DEC	(23 8 41	28 18 16

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 467.		d. h. m.	d. h. m.	A.D. 470.		d. h. m.	d. h. m.
March.	Jan	21 16 25	22 0 57	D.	JAN	18 7 35	18 13 46
d. h. m.	FEB	20 5 9	20 10 57	March. $d. h. m.$	FEB	16 20 <b>1</b> 9	17 7 33
20 0 42	MAR	21 17 53	21 19 38	19 18 8	Mar	18 9 3	18 22 38
	APRIL	20 6 37	20 3 40		0	(2 3 25	1 21 33
	MAY .	19 19 21	19 11 57		APRIL	16 21 47	17 10 40
	0	( 3 13 43	3 23 12		MAY.	16 10 31	16 20 3
	June .	18 8 5	17 21 30		JUNE .	14 23 15	15 3 39
	JULY.	17 20 49	17 9 12		July.	14 11 59	14 10 35
	Aug	16 9 33	15 23 31		Aug	13 0 43	12 17 58
	SEPT	14 22 17	14 16 14		SEPT	(11 13 27	11 2 43
	Ocr	14 11 1	14 10 26		0	26 7 49	26 12 28
	Nov	(12 23 45	13 4 52		Ост	11 2 11	10 13 37
	0	27 18 7	27 9 49		Nov	9. 14. 55	9 3 8
	DEC	12 12 29	12 22 11		DEC	9 3 39	8 19 9
1							
468.	JAN	11 1 13	11 13 24	471.	Jan.	7 16 24	7 13 6
G.F.	FEB.	9 18 57	10 2 1	C.	FEB.	6 5 8	6 7 43
19 6 81	MAR.	10 2 42	10 12 12	19 23 57	MAR.	7 17 52	8 1 38
20 00	APRIL	8 15 26	8 20 29	10 20 01	0	22 12 14	22 11 20
	MAY.	8 4 10	8 8 39		APRIL	6 6 36	6 17 39
	JUNE.	6 16 54	6 10 44		MAY.	5 19 20	
	JULY.	6 5 38	5 18 50		JUNE.	4 8 4	6 7 5 4 17 59
	Aug.	4 18 22	4 5 0		JULY.	3 20 48	4 2 54
	SEPT.	8 7 6	2 18 2		JOLI .	2 9 32	2 10 53
	Ocr.	2 19 50	2 10 5		Aug	31 22 16	31 18 56
	001.	(1 8 84	1 4 30			(15 16 38	15 13 52
	Nov	80 21 18	80 28 57		SEPT	80 11 0	80 8 55
	DEC	80 10 2	30 18 47		Oct.	29 23 44	29 14 24
	DEC	00 10 2	00 10 41		Nov.	28 12 28	28 2 42
400	_		20 44 20		DEC.	28 1 12	27 16 52
469. E.	JAN	28 22 46	29 11 83			20 1 12	2. 10 02
	FEB.	27, 11, 31	28 1 25	4=0	T	00:10 70	00 0 40
19 12 20	MAR	29 0 15	29 12 17	472.	JAN	26 18 56	26 8 40
	0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	12 14 27	ii	FEB.	25 2 40	25 1 80
	APRIL	27 12 59	27 20 46	19 5 46	MAR.	25 15 24	25 18 81
	May.	27 1 48	27 8 47		APRIL	24 4 8	24 10 45
	JUNE .	25 14 27	25 10 25	ll .	MAY .	28 16 52	24 1 26
	July.	25 8 11	24 17 47		JUNE .	22 5 86	22 14 8
	Aug.	28 15 55	28 2 56		JULY.	21 18 20	22 1 8
	SEPT	22 4 89	21 14 44		Aug.	20 7 4	
	0	6 28 1	7 4 27		SEPT	18 19 48	1
	Oct.	121 17 28	21 5 84		Oct	18 8 32	1
	Nov.	20 6 7	19 23 9		Nov.	16 21 16	1
	DEC	19 18 51	19 18 25		DEC	16 10 0	16 8 50
			1	[]	1	1	

Mean		Mean New	True New	Mean		Mean New	True New
Vernal Equinox.	Month.	Moon.	Moon. (O Full Ecl.)	Vernal Equinox.	Month.	Moon.	Moon. (O Full Ecl.)
A.D.				A.D.		7.7	7 7
473. G.		d. h. m.	d. h. m.	476.	_	d. h. m.	d. h. m.
G.	Jan	<b>∫14</b> 22 45	14 16 14	March.	JAN	12 13 55 11 2 39	12 23 41 11 10 21
March.	0	129 17 7	30 6 23	d. h. m. 19 5 1	FEB	11 15 23	11 10 21
d. h. m.	FEB	13 11 29	13 5 36	19 9 1	APRIL	10 4 7	10 8 34
19 11 35	MAR.	15 0 13	14 19 59		MAY.	9 16 51	9 11 24
	APRIL	13 12 57	13 11 13		0	24 11 18	24 21 21
	MAY.	13 1 41	13 2 49		June.	8 5 35	7 20 4
	JUNE.	11 14 25	11 18 10		July.	7 18 19	7 6 31
	JULY.	$\begin{cases} 11 & 3 & 9 \\ 25 & 21 & 31 \end{cases}$	11 8 37 25 10 9		Aug	6 7 3	5 19 32
	Aug.	9 15 53	9 21 51	,	SEPT	4 19 47	4 11 11
	SEPT.	8 4 37	8 9 57		Ocr	4 8 81	4 4 57
	Oct	7 17 21	7 21 17		Nov	ſ 2 21 15	2 23 39
	Nov.	6 6 5	6 8 16		0	17 15 37	17 8 20
	DEC.	5 18 49	5 19 8		Des	f 2 9 59	2 17 51
					DEC	<b>₹31 22 44</b>	•••
474. F.	JAN	$\begin{cases} 4 & 7 & 34 \end{cases}$	4 5 58	477.	JAN.	<i>f</i>	1 10 19
2.	0	19 1 56	19 11 1	В.		\text{\gamma} 11 28	81 0 14
19 17 24	FEB.	2 20 18	2 16 49		FEB	(1"0 12	1 11 80
15 17 24	MAR	4 9 2	4 3 57	19 10 50	MAR	30 12 56	80 20 29
	APRIL	2 21 46	2 15 44 2 4 39		April	29 1 40	29 3 58
	MAY.				0	(13 20 2	14 0 24
	June.	30 11 58	31 18 50 30 10 4		MAY.	28 14 24	28 10 51
	O O	(15 6 20	30 10 4 15 2 5		June.	27 3 8	26 18 15
	July.	30 0 42	30 1 45		JULY.	26 15 52	26 8 16
-	Aug.	28 13 26	28 17 11		Aug	25 4 86	24 14 51
	SEPT.	27 2 10	27 7 53		SEPT	28 17 20	28 5 29
	Ост	26 14 54	26 21 34		Oct	28 6 4	22 22 56
	Nov	25 3 38	25 10 11		0	f 7 0 26	6 28 57
	DEC	24 16 22	24 21 46		Nov	<sup>1</sup> 21 18 48	21 18 10
		8 10 44	8 10 28		DEC	21 7 32	21 18 84
475.	JAN	23 5 6	23 8 21	478.	Jan	19 20 16	20 7 82
E.	FEB.	21 17 50	21 18 5	Α.	FEB.	18 9 0	18 22 50
19 23 13	MAR.	23 6 34	23 3 24	19 16 39	MAR.	19 21 44	20 11 5
	APRIL	21 19 18	21 12 55		APRIL	18 10 28	18 20 38
	MAY.	21 8 2	20 23 29		0	f 8 4 50	8 1 7
	June.	19 20 46	19 11 48		MAY .	17 23 12	18 4 7
	0	∫ 4 15 8	4 19 6		June .	16 11 56	16 10 48
	July.	f19 9 30	19 2 11		July.	16 0 40	15 17 41
	Aug	17 22 14	17 18 16		Aug	14 18 24	14 1 54
	SEPT	16 10 58	16 11 19		SEPT	18 2 8	12 12 23
	Oct	15 23 42	16 4 23		Oct	<b>∫12 14 52</b>	12 1 46
	Nov	14 12 26	14 20 31		0	L27 9 14	27 14 41
	DEC	14 1 10	14 11 3		Nov	11 8 86	10 18 5
<u> </u>	<del></del>	<u> </u>			DEC	10 16 20	10 12 40

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 479.		d. h. m.	d. h. m.	A.D. 482.		d. h. m.	d. h. m.
G.	JAN	9 5 5	9 8 7	402. C.	T	5 20 15	
March.	FEB	7 17 49	8 2 46		JAN		5 14 15   4 2 54
d. h. m. 19 22 28	MAR.	9 6 33	9 19 12	March.	Feb	4 8 59 19 3 21	19 17 1
20 22 20	APRIL	7 19 17	8 8 42	d. h. m. 19 15 54	MAR	5 21 43	5 16 29
	MAY.	7 8 1	7 19 18	19 19 94	APRIL	4 10 27	4 7 1
	JUNE.	5 20 45	6 3 41		MAY.	3 23 11	3 22 18
	July.	5 9 29	5 10 53		JUNE.	2 11 55	2 13 47
1	Aug.	3 22 13	3 18 2		JUNE.	(2 0 39	2 4 50
1	SEPT.	2 10 57	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		JULY.	31 13 23	31 18 54
	DEL I	( 1 23 41	1 12 0			(15 7 45	14 18 27
	Ocr	31 12 25	31 0 16		Aug	30 2 7	30 7 49
	Nov.	30 1 9	29 15 2		SEPT.	28 14 51	28 19 46
	DEC.	29 13 53	29 8 1		Oct	28 3 35	28 7 8
	DEC	20 10 00	20 0 1		Nov.	26 16 19	26 18 10
	i _				1	26 5 3	26 5 1
480.	JAN	28 2 37	28 2 16		DEC	20 5 5	20 5 1
F.E.	FEB	26 15 21	26 20 30	483.	JAN	24 17 47	24 15 43
	0	12 9 43	12 11 3	В.	FEB	23 6 31	23 2 25
19 4 17	MAR	27 4 6	27 13 27	19 21 43	MAR	24 19 15	24 13 31
	APRIL	25 16 50	26 4 10		APRIL	23 7 59	23 1 32
	MAY.	25 5 34	25 16 18		MAY .	22 20 43	22 14 53
	JUNE.	23 18 18	24 2 12	1	JUNE .	21 9 27	21 5 34
	July.	23 7 2	23 10 42		0	6 3 49	6 2 24
-	Aug	21 19 46	21 18 49		JULY .	₹20 22 11	20 21 11
	0	5 14 8	5 8 41		Aug	19 10 55	19 13 2
	SEPT	(20 8 30	20 3 26		SEPT	17 23 39	18 4 26
	Oct	19 21 14	19 13 16		Oct	17 12 23	17 18 57
	Nov	18 9 58	18 0 41		Nov.	16 1 7	16 8 20
	DEC	17 22 42	17 13 52		DEC.	∫15 1 <b>3</b> 51	15 20 32
					0	180 8 18	30 6 33
481.	JAN	16 11 26	16 4 42	484.	JAN.	14 2 35	14 7 35
D.	FEB	<b>15</b> 0 10	14 20 50	A.G.	FEB.	12 15 20	12 17 35
	0	∫ <b>1 1</b> 8 82	2 8 33	19 3 32	MAR.		
19 10 6	MAR	16 12 54	16 18 86	1000	APRIL	11 16 48	
	APRIL	15 1 88	15 6 10		MAY .		
	MAY .	14 14 22	14 21 88		June .		
	JUNE .	18 8 6	13 11 25		0	24 12 38	
	JULY .	12 15 50	12 23 20		JULY .	9 7 0	1
	Aug	. ∫11 4 84	11 9 48		Aug.	7 19 44	1
	0	25 22 56	25 10 15		SEPT.	6 8 28	1
	SEPT	9 17 18	9 19 33		Oct.	5 21 12	
	Ocr	9 6 2	9 5 17		Nov.	4 9 56	
	Nov	7 18 46	7 15 31		DEC.	( 3 22 40	
	DEC	7 7 30	7 2 28		0	18 17 2	
					<u> </u>	1	

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 485.		d. h. m.	d. h. m.	A.D. 488.		d. h. m.	d. h. m.
March.	JAN	2 11 25	2 21 58	C.B.	JAN	29 15 19	29 21 80
d. $h.$ $m.$	FEB	1 0 9	1 9 34	d. h. m.	FEB	28 4 3	28 15 4
19 9 21	MAR	2 12 53	2 19 16	19 2 47	MAR	28 16 47	29 6 0
	A	(1 1 37	1 3 34		0	(12 11 9	12 5 0
	APRIL	(30 14 21	30 11 13		APRIL	27 5 31	27 17 57
	MAY .	30 3 5	29 19 11		MAY .	26 18 15	27 8 20
	0	(13 21 27	14 6 43		June .	25 6 59	25 11 8
	JUNE .	(28 15 49	28 4 33		JULY.	24 19 48	24 18 14
	JULY.	28 4 33	27 16 12		Aug	23 8 27	23 1 53
	Aug	26 17 17	26 6 37	1	SEPT	21 21 11	21 10 55
	SEPT	25 6 1	24 23 34		0	( 6 15 83	6 20 16
	Oct	24 18 45	24 18 8	1	Ocr	21 9 55	20 22 3
	Nov	23 7 29	23 12 57		Nov	19 22 39	19 11 84
	0	(8 1 51	7 18 39		DEC	19 11 23	19 8 26
	DEC	22 20 13	23 6 30				
				489.	JAN	18 0 7	17 20 59
486.	JAN	21 8 57	21 21 46	A.	FEB	16 12 51	16 15 12
Е.	FEB	19 21 41	20 10 16	19 8 36	MAR.	18 1 85	18 8 45
19 15 10	MAR	21 10 25	21 20 12	10 0 00	0	( 1 19 57	1 19 12
	APRIL	19 23 9	20 4 12		APRIL	16 14 19	17 0 84
	MAY.	19 11 53	19 11 9		MAY.	16 8 8	16 18 59
	JUNE.	18 0 37	17 18 4		JUNE.	14 15 47	15 1 1
	JULY.	17 13 21	17 2 8		JULY.	14 4 81	14 10 15
	AUG	16 2 5	15 12 23	1	Aug.	12 17 15	12 18 37
	SEPT	14 14 49	14 1 34		SEPT.	(11 5 59	11 8 5
	Ост	14 3 33	13 17 45		0	26 0 21	25 21 12
	Nov.	12 16 17	12 12 20		Ocr.	10 18 43	10 12 26
	DEC	12 5 1	12 7 56		Nov.	9 7 27	8 28 7
487.	JAN	10 17 46	11 2 50		DEC.	8 20 11	8 11 24
D.	FEB.	9 6 30	9 19 31			0 20 12	0 11 11
19 20 59	MAR.	10 19 14	11 9 13	490.	JAN	7 8 56	7 1 17
	APRIL	(9 7 58	9 19 56	G.	FEB.	7 8 56 5 21 40	7 1 17
	0	24 2 20	23 21 20	19 14 25	MAR		5 16 85
	MAY.	8 20 42	9 4 16	-0 TE NO	APRIL		7 8 51
	JUNE .	7 9 26	7 11 13		MAY.	5 28 8	6 1 28
	JULY.	6 22 10	6 17 54		JUNE .	5 11 52	5 17 28
	Aug.	5 10 54	5 1 24		JULY.	4 0 86 3 13 20	485
	SEPT.	3 23 38	3 10 45		OULX.		8 21 2
	Oct	( 3 12 22	2 22 43		Aug	{ 2 2 4   81 14 48	2 8 24
}	0	18 6 44	18 12 46		SEPT	80 8 82	81 18 40 80 4 85
	Nov	2 1 6	1 13 39		Oct	29 16 16	
	DEC.	( 1 13 50	1 7 13		Nov.		29 14 48
		(31 2 34	31 2 21		DEC.	28 5 0 27 17 44	28 1 22
						21 T. 44	27 12 41

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
rafamax.	I THE PERSON NAMED IN COLUMN TO PERSON NAMED	(O Full Ecl.)	(O Full Ect.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
A.D. 491.		d. h. m.	d. h. m.	A.D. 494.		d. h. m.	d. h. m.
F.	JAN	26 6 29	26 0 42	March.	JAN	22 21 39	23 8 20
March.	_ 0	[10 0 51]	10 14 29	d. h. m.	Feb	21 10 28	21 18 49
d. h. m.	FEB	(21 19 18	24 13 31	19 13 40	MAR	22 23 7	23 3 34
19 20 14	MAR	26 7 57	26 3 16		APRIL	21 11 51	21 11 16
	APRIL	24 20 41	24 17 58		MAY .	21 0 35	20 18 47
	MAY.	24 9 25	24 9 19		0	5 4 18 57	5 4 8
	June.	22 22 9	28 0 39		June.	19 13 19	19 3 12
	JULY.	22 10 58	22 15 24		July .	19 2 3	18 13 34
	0	5 6 5 15	5 17 42		Aug	17 14 47	17 2 37
	Aug	(20 23 87	21 5 10		SEPT	16 3 31	15 18 28
	SEPT	19 12 21	19 17 52		Oct	15 16 15	15 12 38
	Oct	19 1 5	19 5 45		Nov	<b>514 4</b> 59	14 7 36
	Nov	17 18 49	17 17 7		0	28 23 21	28 17 18
	DEC	17 2 88	17 4 6		DEC	13 17 43	14 2 4
492.	JAN	(15 15 17	15 14 47	495.	JAN	12 6 27	12 18 38
E.D.	0	80 9 89	80 18 48	A.	FEB	10 19 11	11 8 29
	FEB	14 4 1	14 1 14	19 19 29	MAR	12 7 55	12 19 33
19 2 8	MAR.	14 16 45	14 11 47	10 10 10	APRIL	10 20 39	11 4 17
	APRIL	18 5 29	12 23 0		MAY.	(10 9 23	10 11 30
	MAY .	12 18 18	12 11 27		0	25 8 45	25 6 58
	JUNE .	11 6 57	11 1 21		JUNE .	8 22 7	8 18 14
	July .	(10 19 41	10 16 84		July.	8 10 51	8 1 35
	0	25 14 8	25 9 48		Aug.	6 28 35	6 10 39
	Aug.	9 8 25	9 8 81		SEPT.	5 12 19	4 22 22
	SEPT	7 21 9	8 0 80		Oct	5 1 8	4 13 10
	Ocr	7 9 58	7 15 48		Nov	( 8 18 47	3 6 47
	Nov	5 22 87	6 6 8		0	18 8 9	18 8 50
	DEC	5 11 21	5 18 59		DEC	8 2 31	3 2 7
493.	Jan	{ 4 0 6 18 18 28	4 6 89 18 18 17	496.	JAN	1 15 16 81 4 0	1 21 84 81 15 28
· ·	FEB.	2 12 50	2 17 2	G.F.	FEB	29 16 44	(1 6 89
19 7 52	MAR.	4 1 84	4 2 28	19 1 18	MAR.	80 5 28	30 18 48
AU 1 UA	APRIL	2 14 18	2 11 12		APRIL	28 18 12	29 4 4
		(282	1 20 15		0	(18 12 34	13 7 48
	MAY .	81 15 46	81 6 26		MAY .	28 6 56	28 11 34
	JUNE.	80 4 80	29 18 82		JUNE .	26 19 40	26 18 16
	0	(14 22 52	15 2 85		JULY.	26 8 24	26 1 18
	JULY .	29 17 14	29 8 54		Aug	24 21 8	24 9 42
1	Aug	28 5 58	28 1 14		SEPT	28 9 52	22 20 28
	SEPT	26 18 42	26 18 44		Oct	22 22 86	22 9 54
	Ocr.	26 7 26	26 12 20		0	( 6 16 58	6 23 19
	Nov.	24 20 10	25 4 55		Nov	21 11 20	21 2 14
	DEC.	24 8 54	24 19 41		DEC	21 0 4	20 20 41
		1					

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 497.		d. h. m.	d. h. m.	A.D. 500.		d. h. m.	d. h. m.
E.	JAN	19 12 48	19 15 54	B.A.	JAN	17 8 58	16 22 55
d. $h$ . $m$ .	FEB	18 1 32	18 10 17	3.5	FEB	15 16 42	15 11 2
19 7 7	MAR	19 14 16	20 2 33	March. $d.$ $h.$ $m.$	0	(1114	2 0 58
	APRIL	18 3 0	18 15 55	19 0 34	MAR	16 5 26	16 0 0
	MAY .	17 15 44	18 2 30	,	APRIL	14 18 10	14 18 59
	June.	16 4 28	<b>16 1</b> 0 59		MAY .	14 6 54	14 4 52
	JULY.	15 17 12	15 18 24		JUNE .	12 19 88	12 20 18
	Aug	14 5 56	14 1 51		JULY.	12 8 22	12 11 27
	SEPT	12 18 40	12 10 16		Aug	(10 21 6	11 1 57
	Oct	12 7 24	11 20 25		0	25 15 28	25 2 25
	Nov	10 20 8	10 8 45		SEPT	9 9 50	9 15 28
	DEC	10 8 52	9 23 26		Oct	8 22 34	9 4 1
					Nov	7 11 18	7 15 51
498.	JAN	8 21 37	8 16 5		DEC	7 0 2	787
D.	FEB	7 10 21	7 9 54				
19 12 56	MAR	(823 5	9 3 44	501.	JAN	5 12 46	5 18 55
	0	23 17 27	23 19 5	G.	FEB	4 1 81	4.018
	APRIL	7 11 49	7 20 23	19 6 22	Mar	5 14 15	5 10 81
	MAY .	7 0 33	7 11 0		APRIL	4 2 59	8 21 2
	JUNE .	5 13 17	5 23 15		MAY .	8 15 48	8 8 88
	JULY.	5 2 1	5 9 24		June.	2 4 27	1 21 81
	Aug	3 14 45	3 18 17		July .	5 1 17 11	1 12 5
	SEPT	(2 3 29	2 2 50		· ·	<b>(81 5 55</b>	81 8 51
	0	(16 21 51	16 15 54		Aug	29 18 89	29 20 7
	Ост.	( 1 16 13	1 11 52		SEPT	28 7 28	28 <b>12 8</b>
	Oct	(31 4 57	30 21 58		Ocr	27 20 7	28 8 14
	Nov	29 17 41	29 9 28		Nov	26 8 51	26 17 2
,	Dec	29 6 25	28 22 26		DEC	25 21 85	26 5 24
499.	JAN	27 19 10	97 10 50		0	5 9 15 58	9 12 52
499. C.	FEB.	26 7 54	27 12 50   26 4 24	502. F.	JAN	24 10 20	24 16 21
	0	(13 2 16	13 11 42		FEB	22 28 4	28 2 0
19 18 45	MAR	27 20 38	27 20 38	19 12 11	Mar	24 11 48	24 10 47
1 20 20	APRIL	26 9 22	26 12 51		APRIL	28 0 82	22 19 <b>22</b>
	MAY.	25 22 6	26 4 13		MAY.	22 18 16	22 4 41
	JUNE .	24 10 50	24 18 8		June.	21 2 0	20 15 88
	JULY.	23 23 34	24 6 27		_ 0	5 20 22	6 2 17
	Aug.	22 12 18	22 17 27		JULY.	20 14 44	20 4 50
	0	(6 6 40	5 17 38		Aug	19 8 28	<b>18 20 1</b> 9
	SEPT	21 1 2	21 3 44		SEPT	17 16 12	17 18 88
•	Ост.	20 13 46	20 13 54		Oct	17 4 56	17 7 80
	Nov	19 2 30	19 0 25	,	Nov.	15 17 40	16 0 55
	DEC	18 15 14	18 11 24		DEC	\( 15 \ 6 24 \)	15 16 50
			44		0	280 0 46	29 16 84

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 503.		d. h. m.	d. h. m.	A.D. 506.		d. h. m.	d. h. m.
March.	JAN	13 19 8	14 6 35	A.	JAN	10 10 18	10 10 14
d. h. m.	FEB	12 7 52	12 18 1	March. $d. h. m.$	FEB	8 23 2	9 5 5
19 18 0	MAR	13 20 36	14 3 25	19 11 27	MAR	10 11 46	10 22 25
	APRIL	12 9 20	12 11 22		APRIL	(9 0 30	9 13 11
	MAY.	11 22 4	11 18 41		0	23 18 52	23 12 6
	June.	<b>∫10 10 48</b>	10 2 25		MAY .	8 13 14	9 1 6
	0	25 5 10	25 13 35		June .	<b>7 1</b> 58	7 10 34
	July.	9 23 32	9 11 38		JULY.	6 14 42	<b>6 1</b> 8 29
1	Aug	8 12 16	7 23 17		Aug.,	5 3 26	5 1 56
	SEPT	7 1 0	6 13 50		SEPT	<b>3 1</b> 6 10	<b>3</b> 9 55
	Oct	6 13 44	6 7 4		Oct	3 4 54	2 19 17
1	Nov	5 2 28	5 1 57		0	17 23 16	18 4 7
	DEC.	( 4 15 12	4 21 1		Nov	<b>1 17 3</b> 8	$\int_{0.000}^{1} 6.35$
	0	(19 9 31	19 3 29		DEC	<b>1</b> 6 22	130 20 5
						(30 19 6	30 11 41
504.	Jan	8 8 57	3 14 46				
D.C.	FEB	1 16 41	262	507.	JAN	29 7 51	29 4 50
18 28 49	Mar	$\int 2 525$	2 18 22	G.	FEB	27 20 35	27 22 34
		(31 18 9	1 4 4	19 17 15	MAR	29 9 19	29 15 45
	APRIL	80 6 53	<b>\( 30 11 49 \)</b>		0	∫13 3 <b>4</b> 1	13 2 58
	MAY.	29 19 37	29 18 36		APRIL	27 22 3	28 7 23
	June.	28 8 21	28 1 29		MAY.	27 10 47	27 20 49
	July.	27 21 5	27 9 35		June .	25 23 31	26 8 5
	Aug	26 9 49	25 19 56		July.	25 12 15	25 17 40
ł	SEPT.	24 22 33	24 9 15		Aug	24 0 59	24 2 29
	Oct	24 11 17	24 1 37		SEPT	22 13 43	22 11 24
	Nov.	28 0 1	22 20 18	,	0	7 8 5	7 4 42
	DEC	22 12 45	. 22 15 55		Oct.	(22 2 27	21 21 6
	_				Nov	20 15 11	20 7 57
505.	JAN	21 1 80	21 10 45		DEC	20 3 55	19 20 8
В.	FEB.	19 14 14	20 8 19		-		
19 5 88	MAR	21 2 58	21 16 52	508.	JAN	18 16 40	18 9 40
1	APRIL	19 15 42	20 3 26	F.E.	FEB	17 5 24	17 0 28
	O M	4 10 4	4 4 10	18 23 4	MAR.	17 18 8	17 16 4
	MAY .	17 17 10	19 11 42		APRIL	16 6 52	16 8 10
	JUNE.	17 17 10 17 5 54	17 18 40 17 1 28		MAY .	15 19 36	15 23 56
	Aug.	15 18 38	15 9 10		JUNE.	14 8 20 13 21 4	14 14 40 14 3 57
1	SEPT.	14 7 22	13 18 43		July . Aug	12 9 48	12 15 48
1	OUT.	(13 20 6	13 6 52		SEPT.	10 22 32	12 15 48
	0	28 14 28	28 21 12		Ocr	10 12 32	10 13 4
	Nov.	12 8 50	11 21 52		Nov.	9 0 0	8 23 33
	DEC.	11 21 34	11 15 20		DEC	8 12 44	8 10 21
	27					1 22 22	0 10 11
t	1	1	i 1			l .	'

Mean Vernal Equinox.	Month.	Mean New M on. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 509.		d. h. m.	d. h. m.	A.D. 512.		d. h. m.	d. h. m.
D.	JAN	7 1 28	6 21 29	March.	JAN	4 16 38	5 4 16
March.	Fев	5 14 12	5 9 4	d. h. m.	FEB	8 5 22	8 16 49
d. h. m.	0	20 8 34	20 22 27	18 22 20	MAR	8 18 6	4 8 8
19 4 58	Mar	7 2 56	6 21 17		APRIL	2 6 50	2 11 29
	APRIL	5 15 40	5 10 27	]	MAY.	$\int 1 19 84$	1 18 50
	MAY.	5 4 24	5 0 39		1,1111	(81 8 18)	81 2 7
	June.	3 17 8	3 15 45		0	s 15 2 40	15 10 52
	JULY.	3 5 52	3 7 9		June.	[29 21 2]	29 10 28
		( 1 18 36	1 22 15		July.	29 9 46	23 20 42
	Aug. O	$  \{ 16 \ 12 \ 58  $	16 1 21		Aug	27 22 30	27 9 51
		<sup>1</sup> 31, 7 20	31 12 33		SEPT	26 11 14	26 1 55
	Sept	29 20 4	30 1 53		Ocr	25 23 58	25 20 15
	Oct	29 8 48	29 14 19		Nov	21 12 42	24 15 84
	Nov	27 21 32	28 2 1		0	7974	927
	DEC	27 10 16	27 13 3		Dec	21 1 26	24 10 18
510.	JAN.	25 23 1	25 23 31	513.	JAN	22 14 11	28 2 50
c.	0	( 9 17 23	10 1 3	F.	FEB	21 2 55	21 16 86
	FEB	24 11 45	24 9 32	19 4 8	MAR.	22 15 89	28 8 27
19 10 42	Mar	26 0 29	25 19 33		APRIL	21 4 28	21 11 58
	APRIL	24 13 13	24 6 13		MAY.	20 17 7	20 19 1
	MAY .	24 1 57	23 18 12		0	( 4 11 29	4 18 19
	JUNE .	22 14 41	22 7 53		JUNE .	19 5 51	19 1 40
	JULY .	22 3 25	21 23 9		JULY.	18 18 85	18 9 8
	0	( 5 21 47	5 17 27		Ang	17 7 19	16 18 18
	Aug	20 16 9	20 15 27		SEPT	15 20 8	15 6 4
	SEPT	19 4 53	19 7 57		Oct	15 8 47	14 21 1
	Ост	18 17 37	18 23 51		Nov	(18 21 81	18 14 48
	Nov	17 6 21	17 14 35		0	28 15 58	28 17 48
	Dec	16 19 5	17 3 48		Drc	18 10 15	18 10 4
511.	Jan	(15 7 49	15 15 26	514.	JAN	11 22 59	12 5 27
в.	0	(30 2 11.	30 2 0	E.	FEB	10 11 48	10 28 15
	FEB	13 20 33	14 1 34	19 9 57	MAR	12 0 27	12 14 17
19 16 31	Mar	15 9 17	15 10 80		APRIL	10 18 11	11 2 18
	APRIL	13 22 1	13 18 52		MAY.	(10 1 55	10 11 28
	May .	13 10 45	13 3 29		0	24 20 17	24 14 24
	June .	11 23 29	11 13 23		Jung.	8 14 89	8 18 58
	July .	(11 12 13	11 1 19		July.	8 8 28	8 1 46
	0	(26 6 35	26 10 6		Aug	6 16 7	6 9 0
	Aug	10 0 57	9 15 43		SEPT	5 4 51	4 17 87
	Sept	8 13 41	8 8 20		Ocr	4 17 85	4 4 81
	Oct	8 2 25	8 2 17		Nov.	(8 6 19	2 18 9
	Nov	6 15 9	6 20 20		0	18 0 41	18 7 59
	DEC	6 3 53	6 13 18		DEC	2 19 8	2 10 26

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 515.		d. h. m.	d. h. m.	A.D. 518.		d. h. m.	d. h. m.
D.	JAN	∫1 748	1 4 40	G.	JAN	27 11 42	27 7 29
	OAM	(30 20 32	30 23 36	M	FEB	26 0 26	25 19 5
March.	FEB			March. $d. h. m.$	0	∫12 18 48	13 8 46
d. h. m. 19 15 46	MAR.	∫ 1 9 16	1 17 43	19 9 13	MAR	<b>\27 13 1</b> 0	27 7 26
10 10 10		(30 22 0	31 9 44		APRIL	26 1 54	25 20 52
	APRIL	29 10 44	29 23 1		MAY.	25 14 38	25 11 22
	MAY.	28 23 28	29 9 40		JUNE.	24 3 22	24 2 40
	JUNE.	27 12 12	27 18 19		Jury.	23 16 6	23 18 8
	Jura.	27 0 56	27 2 1		Aug	22 4 50	22 9 7
	Aug.	25 13 40	25 9 47		0	§ 5 23 12	<b>5 1</b> 0 15
1	SEPT	24 2 24	23 18 33		SEPT	120 17 34	20 23 16
	Oct.	23 15 8	23 4 57		Ост	20 6 18	20 12 24
-	Nov.	22 3 52	21 17 22		Nov	18 19 2	19 0 39
	DEC	21 16 36	21 7 51		DEC	18 7 46	18 12 6
516.	JAN	20 5 20	20 0 6				
C.B.	FEB	18 18 4	18 17 26	519.	JAN	16 20 30	16 22 46
18 21 85	MAR	<b>1</b> 9 6 49	19 10 49	F.	FEB	15 9 14	15 8 46
	0	3 1 11	3 2 59	19 15 1	MAR.	16 21 59	16 18 29
į	APRIL	17 19 33	18 3 12		APRIL	15 10 43	15 4 28
1	MAY.	17 8 17	17 17 45		MAY.	14 23 27	14 15 20
	JUNE.	15 21 1	16 6 10		JUNE.	13 12 11	13 4 9
	Jurx -	15 9 45	15 16 40		JULY.	13 0 55	12 18 39
	Aug	13 22 29	14 1 57		Aug	11 13 39	11 10 38
	SEPT	12 11 13	12 10 58		SEPT	10 2 23	10 3 22
	0	(27 5 85	26 23 18		Oct	9 15 7	9 19 56
	Oct	11 23 57	11 20 25		Nov	8 3 51 7 16 35	8 11 34 8 1 45
	Nov.	10 12 41	10 6 48		DEC	. 10 33	0 1 40
	DEC	10 1 25	9 18 19		Ψ	60 - 10	0.14.10
517.	JAN	8 14 9	8 7 0	520. E.D.	Jan	$\begin{cases} 6 & 5 & 19 \\ 20 & 23 & 41 \end{cases}$	6 14 13
Α.	FEB	7 2 58	6 20 53		C Feb	4 18 3	20 20 46 5 0 58
19 8 24	MAR	8 15 97	8 11 51	18 20 50	MAR.	5 6 47	5 10 16
	0	(23 9 59	23 19 40	10 20 00	APRIL	3 19 31	3 18 37
	APRIL	7 4 21	7 8 32		MAY.	3 8 15	3 2 48
	MAY.	6 17 5	6 19 24		JUNE .	1 20 59	(11146
	June.	5 5 49	5 10 42			1 9 43	30 22 29
	July .	4 18 33 3 7 17	5 0 52		July	16 4 5	16 9 38
	SEPT.	1 20 1	3 13 37   2 <b>1 1</b> 1			(30 22 27	30 11 41
	0	16 14 28	16 1 11		Aug	29 11 11	29 3 21
		(1 8 45	1 12 1		SEPT	27 28 55	27 20 56
	Oct	30 21 29	30 22 39		Ocr	27 12 39	27 15 18
	Nov.	29 10 13	29 9 28		Nov.	26 1 23	26 9 8
	DEC	28 22 57	28 20 19		DEC	25 14 7	26 1 18
		!					!

Mean Vernal Equinox.	Month.	Mean New . Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 521.		d. h. m.	d. h. m.	A.D. 524.		d. h. m.	d. h. m.
C.	0	(9830	9 0 57	G.F.	JAN	21 18 2	21 18 3
3.5	JAN	24 2 52	24 15 5	March. $d$ , $h$ , $m$ .	FEB	20 6 46	20 12 34
d $h. m.$	FEB	22 15 36	23 2 20	18 20 5	MAR	20 19 30	21 5 37
19 2 39	MAR	24 4 20	24 11 27		APRIL	19 8 14	19 20 15
	APRIL	22 17 4	22 19 4		0	(4 2 36	3 19 40
	MAY .	22 5 48	22 2 8		MAY.	18 20 58	19 8 10
	June .	20 18 32	20 9 41	•	JUNE .	17 9 42	17 17 47
	0	(5 12 54	5 20 31		JULY.	16 22 26	17 1 58
	JULY.	20 7 16	19 18 50		Aug.	15 11 10	15 9 45
	Aug	18 20 0	18 6 33		SEPT.	13 23 54	13 18 7
	SEPT.	17 8 44	16 21 15		Oct.	(13 12 38	13 3 48
	Oct	16 21 28	16 14 42		001.	28 7 0	28 12 4
	Nov.	15 10 12	15 9 49		Nov.	12 1 22	11 15 14
	DEC	(14 22 56	15 5 6		DEC.	11 14 6	11 4 39
	0	29 17 18	29 12 19		DEC	11 14 0	11 4 00
	Ū	(20 1, 10	20 12 10		-		0 10 27
522.	JAN	13 11 41	13 22 56	525. E.	JAN	10 2 50	9 19 55
В.	FEB	12 0 25	12 14 8		FEB	8 15 34	8 12 33
19 8 28	MAR	13 13 9	14 2 18	19 1 54	MAR.	10 4 18	10 5 47
	APRIL	12 1 53	12 11 47		APRIL	8 17 2	8 22 36
	MAY .	11 14 37	11 19 22		0	23 11 24	23 10 37
	June .	10 3 21	10 2 3		MAY.	8 5 46	8 14 4
i -	JULY.	9 16 5	9 8 57		June.	6 18 30	7 3 35
	Aug.	8 4 49	7 17 9		JULY.	6 7 14	6 15 7
	SEPT.	6 17 33	6 3 39		Aug	4 19 58	5 1 9
· ·	Ocr	6 6 17	5 17 6		SEPT	3 8 42	3 10 27
	Nov.	4 19 1	4 9 35		Ocr	2 21 26	<b>2 1</b> 9 49
	DEC.	4 7 45	4 4 18		0	17 15 48	17 12 18
	220	10			Nov	1 10 10	1 5 52
523.	JAN	2 20 29	2 23 50			(30 22 54	30 16 50
Α.	FEB	1 9 13	1.18 32		DEC	30 11 38	30 4 51
19 14 17	MAR	2 21 57	3 10 57				
		( 1 10 41	2 0 21	526.	JAN	29 0 23	28 17 56
	APRIL	80 23 25	( 1 10 49	D.	FEB	27 13 7	27 8 5
	0	(15 17 47	15 10 55	19 7 43	MAR	29 1 51	28 23 10
	MAY.	30 12 9	30 19 4		APRIL	27 14 35	27 14 49
	JUNE.	29 0 53	29 2 7		MAY .	27 3 19	27 6 24
	JULY.	28 13 37	28 9 5		June .	25 16 3	25 21 15
	Aug	27 2 21	26 17 2		JULY.	25 4 47	25 10 55
	SEPT	25 15 5	25 2 51		Aug	23 17 31	28 23 18
	Oct	25 3 49	24 15 9		SEPT	22 6 15	22 10 43
	0	§ 22 11	9 5 42		Oct	21 18 59	21 21 39
	Nov	23 16 33	23 6 9		Nov	20 7 43	20 8 27
	DEC	23 5 17	22 23 25		DEC	19 20 27	19 19 19
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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 527. c.		d. h. m.	d. h. m.	A.D. 530.		d. h. m.	d. h. m.
	Jan	18 9 12	18 6 14	March.	JAN	15 0 22	15 12 44
March.	FEB	16 21 56	16 17 20	d. h. m.	Fев	13 13 6	14 1 11
d. h. m.	0	3 16 18	4 6 14	19 6 58	Mar	15 1 50	15 11 10
19 13 32	MAR	(18 10 40	18 4 58		APRIL	13 14 34	13 19 17
	APRIL	16 23 24	16 17 32		MAY .	13 3 18	13 2 22
	MAY.	16 12 8	16 7 18		June .	11 16 2	11 9 27
	June.	15 0 52	<b>14 22 10</b>		JULY.	11 4 46	10 17 39
	JULY.	14 13 36	14 13 42		Aυg	9 17 30	9 4 0
	Aug	[13 2 20]	13 5 12		SEPT	8 6 14	7 17 15
	0	(27 20 42	27 9 11		Oct	7 18 58	7 9 30
	SEPT	11 15 4	11 20 5		Nov	6 7 42	6 4 4
	Ocr	11 3 48	11 10 2		DEC	( 5 20 26	5 23 34
	Nov	9 16 32	9 22 58		0	20 14 48	20 11 2
	DEC	9 5 16	9 10 56				
528.	JAN	7 18 0	7 21 57	531.	JAN	4 9 10	4 18 19
B.A.	FEB.	(6 6 44	6 8 8	Е.	FEB	2 21 54	<b>3 1</b> 0 54
}	0	$\{21 \ 1 \ 6$	21 10 0	19 12 47	MAR	4 10 38	5 0 32
18 19 21	MAR	6 19 28	6 17 42		APRIL	2 23 22	3 11 12
	APRIL	5 8 12	5 3 12		MAY .	2 12 6	2 19 31
	MAY .	4 20 56	4 13 21			(1 0 50	1 2 28
	JUNE.	3 9 40	3 0 58		JUNE.	<b>315 19 12</b>	15 19 45
	JULY .	2 22 24	2 14 28		0	30 13 34	30 9 6
		c 1 11 8	1 5 50		JULY.	30 2 18	29 16 35
ľ	Aug. O	16 5 80	16 1 15		Aug	28 15 2	28 1 55
		(30 23 52	30 22 29		Sept	27 3 46	26 13 55
	SEPT	29 12 36	29 15 30		Oct	26 16 30	26 5 0
	Ocr	29 1 20	29 7 58		Nov	25 5 14	24 22 43
	Nov.	27 14 4	27 23 8		_ 0	9 23 36	10 2 44
	DEC	27 2 48	27 12 33		DEC	24 17 58	24 18 2
529.	Jan	25 15 88	26 0 8	532.	JAN	23 6 43	23 13 17
Q.		(9 9 55	9 9 37	D.C.	FEB	21 19 27	22 6 54
	FEB	24 4 17	24 9 58	18 18 36	MAR.	22 8 11	22 21 45
19 1 10	MAR.	25 17 1	25 18 81		APRIL	20 20 55	21 9 35
10 110	APRIL	24 5 45	24 2 28		May.	20 9 39	20 18 50
	MAY.	28 18 29	28 10 44		0	(4 4 1	3 21 2
	JUNE .	22 7 13	21 20 21		JUNE .	18 22 23	19 2 21
	JULY.	21 19 57	21 8 13		JULY.	18 11 7	18 9 20
	0	(5 14 19	5 17 42		Aug.	16 23 51	16 16 49
	Aug.	20 8 41	19 22 45		SEPT	15 12 35	15 1 44
	SEPT.	18 21 25	18 15 36		Oct	15 1 19	14 12 50
	Oct.	18 10 9	18 9 56		Nov	(13 14 8	13 2 31
	Nov.	16 22 58	17 4 24		0	28 8 25	28 16 42
	DEC.	16 11 87	16 21 40		DEC	13 2 47	12 18 41
					1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 533. B. March. d. h. m. 19 0 25	Jan Feb	d. h. m. 11 15 31 10 4 15 11 17 0	d. h. m. 11 12 37 10 7 10 12 0 56	A.D. 536. F.E. March. d. h. m. 18 17 51	JAN FEB MAR	d. h. m. 9 6 42 7 19 26 ( 8 8 10	d. h. m. 9 5 11 7 15 59 8 8 1
15 0 25	MAR APRIL MAY. JUNE. JULY. AUG.	10 5 44 9 18 28 8 7 12 7 19 56 6 8 40	10 16 46 10 6 1 8 16 46 8 1 40 6 9 41	10 17 51	O APRIL MAY . JUNE . JULY .	23 2 32 6 20 54 6 9 38 4 22 22 4 11 6	28 16 24 6 14 45 6 8 89 4 17 58 4 9 9
	SEPT OCT Nov DEC	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4 17 53 4 3 0 2 13 37 2 2 3 31 16 17		Aug SEPT O Oct	2 23 50 ( 1 12 34 (16 6 56 ( 1 1 18 (30 14 2 29 2 46	3 0 58 1 16 24 15 18 15 1 7 9 30 20 52 29 9 28
534. A.	Jan Feb	{ 1 0 20 { 30 13 4  ( 1 1 48	30 8 2  1 0 50	537.	DEC.	28 15 80 27 4 14	28 21 0 27 7 80
19 6 14	Mar O April	$ \begin{cases} 1 & 1 & 48 \\ 30 & 14 & 32 \end{cases} $ $ \begin{cases} 14 & 8 & 54 \\ 29 & 3 & 16 \end{cases} $	1 0 50 30 17 45 14 10 46 29 9 52	р. 18 23 40	FEB MAR APRIL	25 16 58 27 5 42 25 18 26	25 17 8 27 2 19 25 11 48
	MAY . JUNE . JULY . AUG SEPT	28 16 0 27 4 44 26 17 28 25 6 12 23 18 56 8 13 18	29 0 25 27 13 3 26 23 57 25 9 45 23 19 14 8 6 48		MAY . JUNE . JULY . AUG SEPT OCT	25 7 10 23 19 54 28 8 38 21 21 22 20 10 6 19 22 50	24 22 28 28 10 48 28 1 17 21 17 81 20 10 41 20 8 49
	Nov Dec	23 7 40 21 20 24 21 9 8	23 5 6 21 15 41 21 3 7	538.	Nov DEC	18 11 84 18 0 18	18 19 57 18 10 25 16 22 55
535. g. 19 12 3	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT	19 21 52 18 10 36 19 23 21 ( 3 17 43 (18 12 5 18 0 49 16 13 33 16 2 17 14 15 1 (13 3 45 (27 22 7 12 16 29	19 15 30 18 4 50 19 19 10 4 3 30 18 10 20 18 1 54 16 17 13 16 7 39 14 20 54 13 9 3 27 8 53 12 20 26	c. 19 5 29	FEB  MAR  APRIL  MAY .  JUNE .  JULY .  O  AUG  SEPT  OCT	31 7 25 15 1 47 16 14 81 15 8 15 14 15 59 18 4 48 (12 17 27 (27 11 49 11 6 11 9 18 55 9 7 89	81 4 84 15 9 29 16 18 26 15 2 28 14 10 11 12 18 51 12 5 28 27 17 5 10 18 89 9 10 80 9 4 25
	Nov Dec	11 5 18 10 17 57	11 7 28 10 18 21		Nov Dec	7 20 28 7 9 7	7 28 12 7 17 28

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 539.		d. h. m.	d. h. m.	A.D. 542.		d. h. m.	d. h. m.
в.	JAN	5 21 51	6 9 43	March.	Jan	2 13 1	2 7 32
Manah	0	(20 16 13	20 9 19	d. h. m.	FEB	1 1 45	1 1 45
d. h. m.	FEB	4 10 35	4 23 27	19 4 44	MAR.	2 14 29	2 19 52
19 11 17	MAR	5 23 19	6 10 31			(1 3 13	1 12 39
	APRIL	4 12 3	4 19 20		APRIL	80 15 57	. 1 3 10
	MAY .	4 0 47	4 2 41		0	(15 10 19	$\begin{cases} 15 & 2 & 54 \\ 15 & 2 & 54 \\ \end{cases}$
	June .	2 13 31	2 9 31		MAY.	30 4 41	80 15 10
		(2 2 15	1 16 59		JUNE.	28 17 25	29 0 59
1	July O	16 20 37	17 3 25		JULY.	28 6 9	28 9 30
	00210	31 14 59	31 2 9		Aug	26 18 53	26 17 41
	Aug	30 3 43	29 13 57		SEPT.	25 7 37	25 2 27
1	SEPT.	28 16 27	28 4 48		Ост	24 20 21	24 12 25
1	Oct	28 5 11	27 22 27		0	(8 14 43	8 20 6
1	Nov.	26 17 55	26 17 46		Nov.	23 9 5	22 23 58
	- n	26 6 39	26 13 9		DEC.	22 21 49	22 13 13
	DEC	20 0 00	20 10 0		DEC	22 21 43	22 10 10
	0	(10 1 2	9 21 6	543.	JAN	21 10 34	21 4 5
540.	JAN	24 19 21	25 6 58	D.	FEB.	19 23 18	19 20 11
2.0.	FEB.	23 8 8	23 22 3	19 10 33	MAR.	21 12 2	21 12 52
18 17 6	MAR.	28 20 52	24 10 4	19 10 99	APRIL	20 0 46	20 5 19
10 11 0	APRIL	22 9 36	22 19 23		1	(4 19 8	4 18 12
1	MAY.	21 22 20	22 2 49		MAY.	19 13 30	19 20 42
1	JUNE.	20 11 4	20 9 28		JUNE .	18 2 14	18 10 21
	1	19 23 48	19 16 27		JULY.	17 14 58	17 22 15
1	JULY.	18 12 32	18 0 49		1 .	16 3 42	16 8 45
1	Aug.		16 11 81		Aug.	14 16 26	14 18 34
	SEPT	17 1 16	16 1 6		SEPT.		14 4 24
	Oct.	16 14 0	14 17 88		Oct.	$\begin{cases} 14 & 5 & 10 \\ 28 & 23 & 32 \end{cases}$	28 20 2
	Nov.	15 2 44	1		Nov.	12 17 54	12 14 43
	DEC	14 15 28	14 12 18		1		1
541.	JAN	18 4 18	18 7 41		DEC	12 6 38	12 1 45
F.	FEB.	11 16 57	12 2 12	544.	JAN.	10 19 22	10 13 21
18 22 55	MAR.	18 5 41	18 18 25	C.B.	FEB.	9 8 6	9 2 8
10 112 00	APRIL	11 18 25	12 7 42	18 16 22	MAR.	9 20 51	9 15 41
	MAY.	(11 7 9	11 18 7		APRIL	8 9 35	8 6 10
	O .	26 1 31	25 17 40		MAY.	7 22 19	7 21 24
	JUNE .	9 19 58	10 2 24		June .	6 11 3	6 12 52
	JULY.	9 8 87	9 9 87		July .	5 23 47	6 3 58
		7 21 21	7 16 50		Aug.	4 12 31	4 17 57
	Aug.	6 10 5	6 1 5		SEPT.	8 1 15	3 6 55
	SEPT.	5 22 49	5 11 10		Oct.	2 13 59	2 18 56
	Oct	1	8 28 85		Our.	(1 2 48	
	Nov	4 11 88	1		Nov.	39 15 27	
	0	(19 5 55	19 14 16		77-7	30 4 11	
	DEC	4 0 17	8 14 80		DEC.	00 # 11	00 # 10
	1	<u> </u>	1	11			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon. (O Full Ecl.)
A.D. 545.		d. h. m.	d. h. m.	A.D. 548.		d. h. m.	d. h. m.
A.	JAN	28 16 55	28 14 52	E.D.	JAN	26 8 5	26 21 5
March.	FEB	27 5 39	27 1 30	d. h. m.	FEB	24 20 49	25 9 23
d. h. m.	0	(14 0 1	14 13 51	18 15 37	MAR.	25 9 33	25 19 8
18 22 10	MAR	28 18 23	28 12 32		APRIL	23 22 17	24 2 58
	APRIL	27 7 7	27 0 32		MAY.	23 11 1	23 9 50
	MAY .	26 19 51	26 13 54		JUNE .	21 23 45	21 16 48
	June .	25 8 35	25 4 38		JULY.	21 12 29	21 0 59
	JULY.	24 21 19	24 20 19		Aug	20 1 13	19 11 25
	Aug	23 10 3	23 12 14		SEPT	18 13 57	18 0 48
	0	5 7 4 25	6 17 13		Oct	18 2 41	17 17 13
	SEPT	21 22 47	22 3 43	į.	Nov	16 15 25	16 11 57
	Oct	21 11 81	21 18 16		DEC	(16 4 9	16 7 33
	Nov	20 0 15	20 7 38		0	30 22 31	80 19 56
	Dec	19 12 59	19 19 49			,	
546.	JAN	18 1 44	18 6 46	549.	Jan	14 16 53	15 2 18
G.	FEB.	16 14 28	16 16 39	с.	FEB	13 5 38	13 18 50
	0	(3 8 50	3 17 26	18 21 26	MAR	14 18 22	15 8 18
19 8 59	MAR	18 3 12	18 1 45		APRIL	13 7 6	18 18 48
	APRIL	16 15 56	16 10 44		MAY .	12 19 50	18 8 0
	MAY .	16 4 40	15 20 27		June .	∫11 8 <b>3</b> 4	11 9 54
	June .	14 17 24	14 7 45		0	26 2 56	26 2 13
	JULY.	14 6 8	13 21 9		JULY.	10 21 18	10 16 38
	Aug	(12 18 52	12 12 38		Aug	9 10 2	9 0 15
	0	27 13 14	27 9 15		Sept	7 22 46	7 9 47
	SEPT	11 7 36	11 5 38		Oct	7 11 30	6 21 58
	Oct	10 20 20	10 23 10		Nov	6 0 14	5 18 7
	Nov	9 9 4	9 16 10		Dec	∫ 5 12 58	<b>5</b> 6 <b>4</b> 9
	DEC	8 21 48	9 7 42		0	(20 7 20	20 11 42
547.	Jan	7 10 33		550.	JAN	4 1 42	4 1 56
F.	FEB.	( 5 23 17	7 21 16 6 8 42	в.	FEB.	2 14 26	4 1 56 2 20 58
	0	20 17 39		19 8 15	MAR.	4 3 10	4 14 20
19 9 48	MAR	7 12 1	20 17 8 7 18 14		APRIL	2 15 54	8 5 8
1	APRIL	6 0 45	6 2 25			(2 4 38	2 16 49
	MAY.	5 13 29	5 9 59		MAY .	31 17 22	
	June .	4 2 13	3 17 57		0	(15 11 44	$\begin{cases} 1 & 2 & 5 \\ 15 & 8 & 88 \end{cases}$
	JULY.	3 14 57	3 3 25		June .	30 6 6	80 9 46
		, 2 3 41	1 15 13		JULY .	29 18 50	29 16 59
	Aug. O	16 22 3	17 1 26		Aug	28 7 84	28 0 46
		31 16 25	81 5 51		SEPT	26 20 18	26 9 59
	SEPT	30 5 9	29 22 59		Oct	26 9 2	25 21 17
	Ocr	29 17 58	29 17 42		Nov	24 21 46	24 10 58
	Nov	28 6 87	28 12 30	,	0	(9168	10 1 24
	DEC	27 19 21	28 6 0		DEC	24 10 80	24 2 54
				,			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (C Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 551.		d. h. m.	d. h. m.	A.D. 554.		d. h. m.	d. h. m.
March.	JAN	22 23 15	22 20 29	D.	Jan.	19 14 25	19 13 58
d. h. m.	FEB	21 11 59	21 14 36	March. $d. h. m.$	FEB. ,	18 3 9	18 0 20
19 9 3	MAR	23 0 43	23 8 1	19 2 30	MAR	19 15 53	19 10 49
	APRIL	21 13 27	21 23 40		0	( 3 10 15	3 23 52
	MAY .	21 2 11	21 12 55		APRIL	18 4 37	17 21 59
	June.	19 14 55	19 23 50		MAY .	17 17 21	17 10 25
	JULY.	<b>1</b> 9 <b>3 3</b> 9	19 9 3		June .	16 6 5	16 0 22
	Aug	17 16 23	17 17 30		JULY.	15 18 49	15 15 40
	SEPT	16 5 7	16 2 5		Aug	14 7 33	14 7 43
1	Oct	15 17 51	15 11 33		SEPT	(12 20 17	12 23 47
	Nov	14 6 35	13 22 22		0	27 14 39	27 2 24
	DEC	13 19 19	13 10 44		Ocr	12 9 1	12 15 8
					Nov	10 21 45	11 5 23
552.	JAN	12 8 4	12 0 39		DEC	10 10 29	10 18 18
G.F.	FEB	10 20 48	10 15 55				
18 14 52	MAR	11 9 32	11 8 7	555.	JAN	8 25 14	9 5 52
	APRIL	9 22 16	10 0 35	С.	FEB	7 11 58	7 16 7
	0	24 16 38	24 18 26	18 8 19	MAR	9 0 42	9 1 21
	MAY.	9 11 0	9 16 29		APRIL	7 13 26	7 10 4
	June.	7 23 44	8 7 4		MAY .	7 2 10	6 19 5
	July.	7 12 28	7 19 58		JUNE .	5 14 54	5 5 18
	Aug	6 1 12	6 7 19		JULY .	5 3 38	4 17 32
	SEPT	4 18 56	4 17 40		Aug	3 16 22	3 8 2
	Ocr	(4 2 40	4 3 40		SEPT	2 5 6	2 0 32
	0	18 21 2	18 14 26		000	1 17 50	1 18 11
	Nov	2 15 24	2 13 53		Oct	31 6 34	31 11 49
	DEC	5 2 4 8	2 0 87		Nov	29 19 18	30 4 22
	DEC.	81 16 52	31 11 57		DEC	29 8 2	29 19 3
553.	JAN	80 5 86	29 28 55	556.	JAN	27 20 46	28 7 81
E.	FEB	28 18 20	28 12 40	B.A.	0	∫11 15 8	11 12 15
18 20 41	MAR	80 7 4	80 2 24		FEB	26 9 30	26 17 49
	0	§14 1 26	14 11 11	18 14 8	MAR	26 22 14	27 2 25
	APRIL	28 19 48	28 17 4		APRIL	25 10 58	25 10 0
	MAY.	28 8 82	28 8 22		MAY .	24 23 42	24 17 30
	June .	26 21 16	26 23 41		June .	23 12 26	28 1 59
	July.	26 10 0	26 14 28		JULY.	23 1 10	22 12 30
	Aug	24 22 44	25 4 15		. 0	6 19 32	
	SEPT	23 11 28	23 17 0		Aug	21 13 54	1
	0	8 5 50	7 16 45		SEPT.	20 2 38	1
	Ocr.	28 0 12	28 4 57		OCT.	19 15 22	1
	Nov.	21 12 56	21 16 20		Nov.		1
	DEC	21 1 40	21 8 20		DEC	17 16 50	10 1 99
	Į.	1	1	11		!	1

A.D. 557. G. Jan. (16 5 85 16 18 1)  March. A. h. m. 10 0 17 80 17 84  March. A. h. m. 16 7 3 16 18 28  APRIL 14 19 47 15 8 5 5  Max . 12 12 15 12 16 86  July . 10 22 48 10 9 86  Sept. 9 11 27 8 21 31  O 20 8 45 20 5 49  Feb. 4 3 7 4 14 51  Max. 1 3 17 20 4 2 52  June . 2 6 4 2 10 16  April 4 4 36  April 4 4 36  April 6 18 10  April 6 18 10  April 6 18 10  April 6 2 6 4 2 10 16  April 6 18 10  April 6 18 10  April 6 2 6 6 5 50  April 6 18 10  April 6 18 10  April 6 2 6 6 5 50  April 6 18 10  April 6 2 6 6 5 50  April 7 18 48 1 16 58  Juny 0 18 8 12 29  April 6 2 5 5 14 23  April 6 2 5 5 15 22  April 7 18 48 1 16 58  Juny 0 18 8 12 21 15  April 6 2 5 14 28  April 7 18 48 1 16 58  April 6 2 5 5 14 28  April 7 18 4 8 8 1 16 58  April 6 2 5 5 14 28  April 7 18 18 18 12 11  April 6 2 5 14 28  April 7 18 4 8 8 1 16 58  April 7 18 4 8 8 1 16 58  April 6 2 5 5 10 8  April 7 18 4 8 8 1 16 58  April 7 18 4 8 8 1 16 58  April 7 18 4 8 8 1 16 58  April 7 18 18 18 8 1 12 11  April 7 18 4 8 8 1 16 58  April 7 18 18 18 8 1 12 11  April 7 18 18 18 8 1 12 11  April 7 18 18 18 8 1 12 11  April 7 18 18 18 8 1 12 11  April 7 18 18 18 8 1 12 11  April 7 18 18 18 8 1 12 11  April 7 18 18 18 8 1 12 11  April 7 18 18 18 18 18 12 11  April 7 18 18 18 18 18 12 11  April 7 18 18 18 18 18 12 11  April 7 18 18 18 18 18 12 11  April 7 18 18 18 18 18 12 11  April 7 18 18 18 18 18 12 11  April 7 18 18 18 18 18 12 11  April 7 18 18 18 18 18 12 11  April 7 18 18 18 18 18 12 11  April 7 18 18 18 18 18 12 11  April 7 18 18 18 18 18 12 11  April 7 18 18 18 18 18 12 12 11  April 7 18 18 18 18 18 12 12 11  April 7 18 18 18 18 18 12 12 11  April 7 18 18 18 18 18 12 12 11  April 7 18 18 18 18 18 12 12 11  April 7 18 18 18 18 18 12 12 11  April 7 18 18 18 18 18 12 12 11  April 7 18 18 18 18 18 12 12 12 12 12 12 12 12 12 12 12 12 12	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.
March. d. h. m. 18 19 56  Mar. 18 19 56  Mar. 18 19 56  Mar. 14 18 19 47 15 8 5  May. 14 8 81 14 10 12  June. 19 59  Aug. 10 22 43 10 9 36  Sept. 9 11 27 82 131  Nov. 7 12 55 7 6 20  Dec. 7 1 39 7 1 44  Mar. 18 19 1 45  Mar. 18 19 1 45  Mar. 19 1 45  Mar			d. h. m.	d. h. m.			d. h. m.	d. h. m.
March. d. h, m. 18 19 56  Mar. 16 7 3 16 18 32  April 14 19 47 15 8 5  Mar. 129 59 12 0 22  O 27 4 21 27 10 25  Aug. 10 22 43 10 9 36  Sept. 9 11 27 8 21 31  Nov. 7 12 55 7 6 20  Dec. 7 1 39 7 1 44  558.  Feb. 4 8 7 4 14 51  Mar. 8 17 20 4 2 52  June 2 2 6 4 2 10 16  April Mar. 8 17 20 4 2 52  June 2 2 6 4 2 10 16  Aug. 18 18 28  April Mar. 6 15 52  April Mar. 6 15 52  April Mar. 12 2 21 8 18 8 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	G.	JAN	(16 5 35	16 18 1		JAN	13 20 45	13 15 35
A. A. m.   APRIL   14 18 19   15 7 40   18 18 28   MAR.   12 22 18   13 8 8   APRIL   14 19 47   15 8 5   MAR.   14 8 81   14 10 12   JUNE   12 21 15   12 16 56   JUNE   12 21 15   12 16 56   JUNE   10 22 43   10 9 36   Sept.   9 11 27   8 21 31   Oct.   9 0 11   8 12 38   Nov.   7 12 55   7 6 20   Dec.   7 1 39   7 1 44   Si 1 4 16 18   APRIL   MAY	3/52	0	30 23 57	30 17 34		FEB	12 9 29	12 9 21
18 19 56		FEB	14 18 19	15 7 40		MAR	12 22 13	13 3 3
May   14   8   81   14   10   12   12   15   12   16   16   12   13   12   13   12   14   15   10   12   14   15   10   12   15   12   16   16   16   13   10   14   15   19   7   84   11   15   17   18   18   18   18   18   18   18		MAR	16 7 3	16 18 32		APRIL	11 10 57	11 19 88
June .   12 21 15   12 16 56   July .   (12 9 59   12 0 22   July .   (12 9 59   12 0 02   July .   (12 9 4 21   27 10 25   Aug   10 9 36   Sept   9 11 27 8 21 31   Oct   9 0 11 8 12 38   Nov   7 12 55   7 6 20   Dec   7 1 39   7 1 44   Oct   9 0 11 8 12 38   Nov   7 12 55   7 6 20   Dec   7 1 39   7 1 44   Oct   7 1 39   7 1 44   Oct   1 8 12 27 10 25   Aug   1 8 12 11   Oct   5 15 21   5 10 55   Sept   6 2 37   6 1 46   Oct   5 15 21   5 10 55   Oct   5 15 21   Oct   5 15 21   Oct   5 15 21   Oct   5 15 21   Oct   Oc		APRIL	14 19 47	15 3 5		MAY .	(10 23 41	11 9 59
July . (12 9 59 12 0 22	1	MAY .	14 8 31	14 10 12		0	25 18 3	25 10 8
Aug.   10 22 43   10 9 36   Sept.   6 2 37   6 1 46   Sept.   9 11 27   8 21 31   Oct.   9 0 11   8 12 33   Nov.   7 12 55   7 6 20   Dec.   7 1 39   7 1 44   Dec.   7 1 39   7 1 44   Dec.   7 1 39   7 1 44   Dec.   3 16 49   3 8 46   Sept.   6 2 37   6 1 46   Oct.   5 15 21   5 10 55   Oct.   7 1 39   7 1 44   Dec.   7 1 39   7 1 44   Dec.   3 16 49   3 8 46   Dec.   7 1 39   7 1 44   Dec.   18 19 12   Sept.   19 1 1 1   Sept.   17 1 48   Sept.   19 1 1 1   Sept.   17 1 48   Sept.   19 1 1 1   Sept.   17 1 48   Sept.   17 1 48   Sept.   17 1 48   Sept.   17 1 48   Sept.   17 1 48   Sept.   17 1 48   Sept.   17 1 48   Sept.   17 1 48   Sept.   19 1 1 1   Sept.   17 1 48   Sept.   17 1		JUNE .	12 21 15	12 16 56		JUNE .	9 12 25	9 22 7
Aug. 10 22 43 10 9 36 Sept. 9 11 27 Sept. 9 12 14 Sept. 9 12 14 Sept. 17 17 48 Sept. 17 17 17 48 Sept. 17 17 48 Sept. 17 17 17 48 Sept. 17 17 17 48 Sept. 17 17 17 48 Sep		JULY .	(12 9 59	12 0 22		JULY.	9 1 9	9 8 14
SEPT. 9 11 27 8 21 31 OCT. 5 15 21 5 10 55 Nov. 7 12 55 7 6 20 DEC. 7 1 39 7 1 44 DEC. 8 16 49 8 8 46		0	27 4 21	27 10 25		Auc.	7 13 53	7 17 9
Oct. 9 0 11 8 12 33 Nov. 6 7 12 55 7 6 20 Dec. 7 1 39 7 1 44 Dec. 8 16 49 8 8 46  558. F. O 20 8 45 20 5 49 Feb. 4 3 7 4 14 51 Mar. 5 15 52 6 5 50 April 44 36 4 17 41 May 8 17 20 4 2 52 June 2 6 4 2 10 16 81 63 7 82 31 0 6 April 7 82 31 0 6 April 7 82 8 9 0 27 19 38 Oct. 27 21 44 27 9 17 Nov. 26 10 28 26 1 46 Dec. 25 28 12 25 20 17 Nov. 26 10 28 26 1 46 Dec. 25 28 12 25 20 17 Nov. 26 10 28 26 1 46 Dec. 25 28 12 25 20 17 Sept. 19 7 34 Mar. 22 14 52 23 1 19 June 2 1 3 36 April 23 22 3 4 19 June 2 1 3 36 April 23 20 16 20 47 15 April 19 17 18 46 17 19 17 17 17 48 17 9 16 Oct. 19 5 4 19 0 41 Sept. 17 17 48 17 9 16 Oct. 17 6 32 Nov. 16 15 8 6 Nov. 17 18 21 18 14 14 8 14 Nov. 12 10 26 12 16 18 19 35 Nov. 16 15 8 6 Nov. 17 18 24 14 38 31 22 15 6 Nov. 17 18 46 17 19 17 July 17 17 17 48 17 9 16 Oct. 17 6 32 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 19 12 Nov. 18 19 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 Nov. 18 19 12 No		Aug	10 22 43	10 9 36		SEPT	6 2 37	6 1 46
Oct.   9 0 11   8 12 38   Nov.         4 4 5   8 21 11   Nov.       7 12 55   7 6 20   Dec.     7 1 39   7 1 44   Dec.     8 16 49   8 8 46       558. F.		SEPT	9 11 27	8 21 31		Oct	ľ	
Nov 7 12 55		Oct	9 0 11	1 1		l	1	
DEC 7 1 39 7 1 44    DEC   3 16 49 8 8 46		Nov	7 12 55	7 6 20			1 3	19 4 11
F. O 20 8 45 20 5 49 FEB. 4 3 7 4 14 51 MAR. 5 15 52 6 5 50 APRIL 4 4 36 4 17 41 MAY . 3 17 20 4 2 52 JUNE . 2 6 4 2 10 16 31 7 32 31 0 6 AUG. 29 20 16 29 8 40 Sept. 28 9 0 27 19 33 Oct. 27 21 44 27 9 17 Nov. 26 10 28 26 1 46 DEC. 25 23 12 25 20 17 Nov. 26 10 28 26 1 46 DEC. 25 23 12 25 20 17  559. E. FEB. 23 0 40 28 9 41 MAR. 24 13 24 25 1 43 APRIL 28 2 8 28 14 54 MAY . 22 14 52 28 1 19 JUNE . 21 3 36 21 9 44 JULY . 20 16 20 20 17 10 AUG. 19 5 4 19 0 41 Sept. 17 17 48 17 9 16 Oct. 17 6 32 16 19 35 Nov 15 19 16 15 8 6 Oct. 17 6 32 16 19 35 Nov 15 19 16 15 8 6 Oct. 15 8 0 14 99 54 Nov 15 19 16 15 8 6 Oct. 17 6 32 16 19 35 Nov 15 8 0 14 99 54 Nov 12 10 26 12 16 12 10		DEC	7 1 39	7 1 44		DEC	1	
Feb. 4 3 7 4 14 51  MAR. 5 15 52 6 5 50  April 4 4 86 4 17 41  May . 3 17 20 4 2 52  June . 2 6 4 2 10 16  1 18 48 1 16 58  16 13 10 16 13 16  31 7 32 31 0 6  Aug 29 20 16 29 8 40  Sept 28 9 0 27 19 38  Oct 27 21 44 27 9 17  Nov 26 10 28 26 1 46  Dec 25 23 12 25 20 17  Sept 28 13 6 21 9 44  May . 24 13 24 25 1 43  April 23 2 8 28 14 54  May . 22 14 52 23 1 19  June . 21 3 36 21 9 44  July . 20 16 20 20 17 10  Aug 19 5 4 19 0 41  Sept 17 17 48 17 9 16  Oct 17 6 32 16 19 35  Nov 15 19 16 15 8 6  O Dec 15 8 0 14 28 24  Nov 15 19 16 15 8 6  O Dec 15 8 0 14 28 24  Nov 12 10 26 12 15 6		JAN	∫ 5 14 23	5 21 7	561.	T. 3.	(2 5 34	1 21 49
Feb.   4 8 7   4 14 51   Mar.   5 15 52   6 5 50   April   4 4 36   4 17 41   May   3 17 20   4 2 52   June   2 6 4   2 10 16   118 48   1 16 58   31 7 32   31 0 6   Aug.   29 20 16   29 8 40   Sept.   28 9 0   27 19 38   Oct.   27 21 44   27 9 17   Nov.   26 10 28   26 1 46   Dec.   25 28 12   25 20 17   Sept.   28 18 24   25 1 48   April   28 2 8   28 14 54   July   20 16 20   20 17 10   Aug.   19 5 4   19 0 41   Sept.   17 16 82   Repr.   17 17 48   17 9 16   Oct.   15 8 0   14 88   30 22 50   Dec.   15 8 0   14 88   30 22 50   De	F.	0	20 8 45	20 5 49	в.	JAN	l 31 18 18	81 12 11
April 4 4 86 4 17 41  MAY . 8 17 20 4 2 52  JUNE . 2 6 4 2 10 16  (1 18 48 1 16 58)  JULY O { 16 18 10 16 18 16 31 7 32 31 0 6 }  Aug 29 20 16 29 8 40  Sept 28 9 0 27 19 38  Oct 27 21 44 27 9 17  Nov 26 10 28 26 1 46  Dec 25 23 12 25 20 17  Nov 26 10 28 26 1 46  Dec 25 23 12 25 20 17  559.  E. Feb 23 0 40 23 9 41  MAR . 24 13 24 25 1 43  April 23 2 8 23 14 54  MAY . 22 14 52 23 1 19  JUNE . 21 3 36 21 9 44  JULY . 20 16 20 20 17 10  Aug 19 5 4 19 0 41  Sept 17 17 48 17 9 16  Oct 17 6 32 16 19 35  Nov 15 19 16 15 8 6 6 30 13 38 30 22 50  Dec 15 8 0 14 20 24		FEB	4 3 7	4 14 51		FEB	•••	•••
APRIL MAY . 3 17 20 4 2 52  JUNE . 2 6 4 2 10 16  1 18 48 1 16 58  JULY O	19 1 45	MAR	5 15 52	6 5 50	10 10 10	3.5	(272	2 3 41
June . 2 6 4 2 10 16  July 0 {1 18 48 1 16 58		APRIL	4 4 36	4 17 41	18 19 12	MAR	81 19 46	81 19 52
Table   Tabl		MAY .	3 17 20	4 2 52		APRIL	30 8 30	30 11 58
JULY O		JUNE .	2 6 4	2 10 16		0	(15 2 52	15 1 44
Si			1 18 48	1 16 58		MAY .	129 21 14	80 8 15
Aug 29 20 16 29 8 40 Sept 28 9 0 27 19 38 Oct 27 21 44 27 9 17 Nov 26 10 28 26 1 46 Dec 25 23 12 25 20 17  559.  E. Feb 23 0 40 23 9 41 Mar 24 13 24 25 1 43 April 23 2 8 23 14 54 May . 22 14 52 23 1 19 June . 21 3 36 21 9 44 July . 20 16 20 20 17 10 Aug 19 5 4 19 0 41 Sept 17 17 48 17 9 16 Oct 17 6 32 16 19 35 Nov (15 19 16 15 8 6) Dec 15 8 0 14 89 54 Dec 15 8 0 14 89 54 Dec 15 8 0 14 89 54 Dec 15 8 0 14 89 54 Dec 12 10 26 12 15 6		July O	16 13 10	16 13 16		JUNE .	28 9 58	28 17 7
SEPT. 28 9 0 27 19 38 Oct. 27 21 44 27 9 17 Nov. 26 10 28 26 1 46 Dec. 25 23 12 25 20 17  559. E. 19 7 34  April 23 2 8 23 14 54 May 22 14 52 23 1 19 June 21 3 36 21 9 44 July 20 16 20 20 17 10 Aug. 19 5 4 19 0 41 Sept. 17 17 48 17 9 16 Oct. 17 6 32 16 19 35 Nov. (15 19 16 15 8 6) Dec. 15 8 0 18 88 30 22 50 Dec. 15 8 0 14 69 54			131 7 32	31 0 6		JULY .	27 22 42	28 5 25
Oct 27 21 44 27 9 17 Nov 26 10 28 26 1 46 Dec 25 23 12 25 20 17  559.  E. Feb 23 0 40 23 9 41 Mar 24 13 24 25 1 43 April 23 2 8 23 14 54 May . 22 14 52 23 1 19 June . 21 3 36 21 9 44 July . 20 16 20 20 17 10 Aug 19 5 4 19 0 41 Sept 17 17 48 17 9 16 Oct 17 6 32 16 19 35 Nov (15 19 16 15 8 6 Dec 15 8 0 14 69 54		•	29 20 16	29 8 40		Aug	26 11 26	26 16 27
Nov 26 10 28 26 1 46 DEC 25 23 12 25 20 17  559.  I		SEPT	0	27 19 33		SEPT	25 0 10	25 2 48
DEC 25 23 12 25 20 17  559.  I. 24 11 56 24 15 26  FEB 23 0 40 23 9 41  MAR 24 13 24 25 1 43  APRIL 23 2 8 23 14 54  MAY . 22 14 52 23 1 19  JUNE . 21 3 36 21 9 44  JULY . 20 16 20 20 17 10  AUG 19 5 4 19 0 41  SEPT 17 17 48 17 9 16  OCT 17 6 32 16 19 35  Nov (15 19 16 15 8 6)  DEC 25 23 12 25 20 17  Nov (23 1 38 22 23 40  DEC 22 14 22 22 10 41   Sept 19 15 50 19 10 18  MAR 21 4 34 20 23 8  APRIL 19 17 18 19 18 4  MAY . 19 6 2 19 8 55  JUNE . 17 18 46 17 19 17  JULY . 17 7 30 17 10 81  AUG 19 5 4 19 95 4  OCT 13 21 42 14 8 14  Nov 12 10 26 12 15 6		Ocr	27 21 44	27 9 17		Oct	24 12 54	24 18 5
559.  B. Jan 24 11 56		Nov	26 10 28	26 1 46		0	(8716	8 8 52
Feb. 23 0 40 28 9 41  19 7 34 Mar. 24 13 24 25 1 43  April 23 2 8 23 14 54  May 22 14 52 23 1 19  June 21 3 36 21 9 44  July 20 16 20 20 17 10  Aug. 19 5 4 19 0 41  Sept. 17 17 48 17 9 16  Oct. 17 6 32 16 19 35  Nov. 15 19 16 15 8 6  O Dec. 15 8 8 8 8 8 22 25 6  Dec. 15 8 8 8 8 8 25 26 6		Dec	25 23 12	25 20 17		Nov	28 1 88	22 28 40
E. FEB 23 0 40 28 9 41 MAR 24 18 24 25 1 43 APRIL 23 2 8 2 3 14 54 MAY . 22 14 52 23 1 19 JUNE . 21 3 36 21 9 44 JULY . 20 16 20 20 17 10 AUG 19 5 4 19 0 41 Sept 17 17 48 17 9 16 Oct 17 6 32 16 19 35 Nov (15 19 16 15 8 6 Dec 15 8 0 18 88 30 22 50 Dec 15 8 0 14 92 54	550	T	04 44 70			DEC	22 14 22	22 10 41
19 7 34 Mar 24 13 24 25 1 43 APRIL 28 2 8 2 8 14 54 MAY . 22 14 52 23 1 19 JUNE . 21 3 36 21 9 44 JULY . 20 16 20 20 17 10 AUG 19 5 4 19 0 41 Sept 17 17 48 17 9 16 Oct 17 6 32 16 19 35 Nov (15 19 16 15 8 6) Dec 15 8 0 18 80 22 50 Dec 15 8 0 14 92 54	i .			- (				
April 28 2 8 28 14 54 19 1 1 1					1	JAN	21 8 6	20 22 9
MAY . 22 14 52 23 1 19  June . 21 3 36 21 9 44  July . 20 16 20 20 17 10  Aug 19 5 4 19 0 41  Sept 17 17 48 17 9 16  Oct 17 6 32 16 19 35  Nov (15 19 16 15 8 6  O	70 1 94					1	19 15 50	19 10 18
June . 21 3 36 21 9 44  July . 20 16 20 20 17 10  Aug 19 5 4 19 0 41  Sept 17 17 48 17 9 16  Oct 17 6 32 16 19 35  Nov (15 19 16 15 8 6)  Oct 15 19 16 15 8 6  Dec 15 8 0 14 29 54					19 1 1	MAR	21 4 34	20 23 8
July . 20 16 20 20 17 10  Aug 19 5 4 19 0 41  Sept 17 17 48 17 9 16  Oct 17 6 32 16 19 35  Nov (15 19 16 15 8 6 0 18 38 22 50  Dec 15 8 0 14 29 54							19 17 18	19 18 4
Aug 19 5 4 19 0 41 Sept 17 17 48 17 9 16 Oct 17 6 32 16 19 35 Nov (15 19 16 15 8 6 Oct 15 8 0 14 29 54  Dec 15 8 0 14 29 54		- 1	000			MAY .	19 6 2	19 8 55
Sept. 17 17 48 17 9 16 Oct. 17 6 32 16 19 35 Nov. 15 19 16 15 8 6 Oct. 15 8 0 14 29 54  Sept. 17 7 30 17 10 31 Aug. 15 20 14 16 1 8 Sept. 14 8 58 14 14 88 Oct. 13 21 42 14 8 14 Nov. 12 10 26 12 15 6		- 1		11	ĺ	JUNE .	17 18 46	17 19 17
Oct 17 6 82 16 19 35 Nov (15 19 16 15 8 6 6 Oct 13 21 42 14 8 14 Nov 15 20 16 12 15 6			1		ļ	JULY .	17 7 30	17 10 81
Nov [15 19 16 15 8 6 Oct 13 21 42 14 8 14 Nov 12 10 26 12 15 6		1	1	1	ĺ	- 1	15 20 14	16 1 8
O   30 13 88 80 22 50   Nov.   12 10 26   12 15 6	İ	J		- 11	1	-	14 8 58	14 14 88
Dec. 15 8 0 14 99 54		1	111	- 11			13 21 42	
DEC 11 28 10 12 2 23				11			12 10 26	12 15 6
		-20	70 0 0	14 22 54		DEC	11 28 10	12 2 23

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 563.		d. h. m.	d. h. m.	A.D. 566.		d. h. m.	d. h. m.
G.	Jan	10 11 55	10 13 8	с.	JAN	7 3 5	
March.	FEB.	9 0 39	8 23 25	March.	FEB	5 15 49	7 14 13
19 6 49	Mar.	(10 13 23	10 9 32	d. h. m.   19 0 16	MAR.	7 4 33	6 5 18 7 17 26
25 0 10	0	25 7 45	25 21 19	15 0 10	APRIL	5 17 17	6 2 56
	APRIL	9 2 7	8 20 0		MAY.	5 6 1	5 10 33
	MAY .	8 14 51	8 7 29		JUNE.	3 18 45	3 17 17
	June.	7 3 35	6 20 30		July.	3 7 29	3 0 12
	July .	6 16 19	6 11 8		oomi.	(1 20 13	1 8 27
	Aug	5 5 3	5 3 1		Aug	31 8 57	30 19 0
	SEPT.	( 3 17 47	3 19 23		SEPT	29 21 41	29 8 32
1	0	18 12 9	18 1 15		Ост	29 10 25	29 1 6
	Oct	3 6 31	3 11 28		7.7	27 23 9	27 19 55
1	Nov.	1 19 15	2 2 35		DEC	27 11 53	27 15 31
		(1 7 59	1 16 22		DEC	21 11 00	2. 15 51
	DEC	30 20 43	31 4 40	567.	0	(11 6 15	11 6 47
	_	20 0 0-		B.	JAN	26 0 37	26 10 12
564.	JAN	29 9 27	29 15 29		FEB	24 13 21	25 2 35
1.15.	FEB	27 22 11	28 1 0	19 6 5	MAR.	26 2 5	26 15 54
70.10.00	1.0	13 16 33	14 0 39		APRIL	24 14 49	25 2 16
18 12 38	MAR.	28 10 56	28 9 40		MAY.	24 3 33	24 10 24
	APRIL	26 23 40	26 18 12		JUNE .	22 16 17	22 17 20
	MAY .	26 12 24	26 3 32		0	7 10 39	7 8 41
	June .	25 1 8	24 14 33		July .	22 5 1	22 0 13
	July .	24 18 52	24 8 54		Aug	20 17 45	20 8 2
	Aug	23 2 36	22 19 33		SEPT	19 6 29	18 17 47
	0	6 20 58	6 17 20		Ocr	18 19 13	18 6 9
	SEPT.	21 15 20	21 12 57		Nov	17 7 57	16 21 19
	Oct	21 4 4	21 6 58		DEC	(16 20 41	16 14 53
	Nov.	19 16 48	20 0 21		0	131 15 3	31 20 37
	DEC	19 5 82	19 16 15				
565.	JAN	17 18 16	18 5 51	568.	JAN	15 9 26	15 9 48
ъ.	FEB	16 7 0	16 17 7	A.G.	FEB	13 22 10	14 4 32
	0	S 1 22	8 0 31	18 11 54	MAR	14 10 54	14 21 40
18 18 27	MAR	17 19 44	<b>1</b> 8 2 20		APRIL	12 23 38	13 12 14
	APRIL	16 8 28	16 10 10		MAY .	12 12 22	12 23 58
	MAY.	15 21 12	15 17 25		JUNE .	11 1 6	
	JUNE .	14 9 56	14 1 10		0	25 19 28	
	July .	18 22 40	18 10 81		July.	10 13 50	10 17 12
	Aug	12 11 24	11 22 21		Aug	9 2 34	9 0 45
	0	127 5 46	27 9 18		SEPT	7 15 18	1
	SEPT	11 0 8	10 13 8		Oct	7 4 2	
	Oct	10 12 52	10 6 32		Nov.	5 16 46	1
	Nov	9 1 86	9 1 82		DEC	13	
	DEC	8 14 20	8 20 86		0	19 28 52	20 10 6
					1		

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True Now Moon. () Full Ecl.)
A.D. 569.		d. h. m.	d. h. m.	A.D. 572.		d. h. m.	d. h. m.
F.	JAN	<b>3 1</b> 8 <b>1</b> 5	3 11 10	с.в.	JAN	f 1 9 24	1 12 17
d. $h.$ $m.$	FEB	2 6 59	2 4 16	March.	JAN	130 22 8	80 22 89
18 17 42	MAR	3 19 43	3 21 55	d. h. m.	FEB	29 10 58	29 8 84
	APRIL	2 8 27	2 14 59	18 11 9	MAR	29 28 37	29 18 31
	MAY .	$\begin{cases} 1 & 21 & 11 \end{cases}$	2 6 27		0	13 17 59	14 7 11
		\31 9 55	31 19 45		APRIL	28 12 21	28 5 9
	_ 0	$\begin{cases} 15 & 4 & 17 \end{cases}$	14 18 16		MAY .	28 1 5	27 17 10
	June.	129 22 39	30 6 56		June.	26 18 49	26 6 56
	JULY.	29 11 23	29 16 31		JULY.	26 2 33	25 22 18
	Aug	28 0 7	28 1 23		Aug	24 15 17	24 14 42
	SEPT	26 12 51	26 10 26		SEPT	23 4 1	23 7 17
	Ост	26 1 35	25 20 16		0	7 22 28	7 10 45
	Nov	24 14 19	24 7 14		Ocr	122 16 45	22 28 14
	Dec	24 3 3	23 19 28		Nov	21 5 29	21 18 57
570.	т	22 15 47	22 8 58		DEC	20 18 18	21 8 7
570. E.	Jan Feb	21 4 31		573.	Ψ	10 0 55	40 44 00
18 23 31	MAR.	22 17 15	20 23 40 22 15 18	A.	JAN	19 6 57	19 14 88
10 20 01	APRIL	21 5 59	21 7 18		FEB	17 19 41	18 0 86
		6 0 21	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	18 16 58	MAR	19 8 25	19 9 25
	O May.	20 18 43	20 23 0		APRIL	17 21 9	17 17 42
	June.	19 7 27	19 13 40		MAY . June .	17 9 58	17 2 18
	JULY.	18 20 11	19 2 55			15 22 87 15 11 21	15 12 14
	Aug	17 8 55	17 14 46		JULY.		15 0 19
	SEPT	15 21 39	16 1 41		Aug Sept	14 0 5	18 14 55
	Oct	(15 10 23	15 12 11		Oct	12 12 48	
	0	30 4 45	29 22 13		Nov.	10 14 17	12 1 44   10 19 51
1	Nov	13 23 7	13 22 45		DEC	10 17 17	10 12 46
	DEC	13 11 51	13 9 35		1) B.C	10 0 1	10 12 40
				574.	JAN	8 15 46	9 8 87
571.	JAN	12 0 36	11 20 44	G.	FEB	7 4 80	7 15 59
D.	Feb	10 13 20	10 8 14		0	21 22 52	21 19 52
19 5 20	MAR	12 2 4	11 20 24	18 22 47	MAR	8 17 14	9 2 2
1	APRIL	<b>∫10 14 48</b>	10 9 31		APRIL	7 5 58	7 10 18
1	0	<sup>1</sup> 25 9 10	25 18 47		MAY .	6 18 42	6 17 83
	MAY .	10 3 32	9 23 43		June .	5 7 26	5 0 50
	JUNE.	8 16 16	8 14 48		JULY.	4 20 10	4 9 12
	JULY.	8 5 0	8 6 13		Aug	8 8 54	2 19 41
	AUG	6 17 44	6 21 22		0	18 8 16	18 8 18
	SEPT.	5 6 28	5 11 44		SEPT	1 21 88	1 9 2
	Oct	$\begin{cases} 4 & 19 & 12 \\ 10 & 10 & 2 \end{cases}$	5 1 6		Oom	ſ 1 10 22	1 1 18
	Non	19 13 34	19 0 47		Oct	80 28 6	80 19 48
	Nov	3 7 56	3 13 34		Nov	29 11 50	29 15 9
	DEC	2 20 40	3 1 16		DEC	29 0 84	29 9 45

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 575. F. March.	Jan	d. h. m. 27 13 18 11 7 40	d. h. m. 28 2 11 11 1 44	A.D. 578. B. March. d. h. m.	JAN Feb	d. h. m. 24 4 28 22 17 12	d. h. m. 23 23 34 22 16 50
d. h. m.	FEB	26 2 2	26 15 43	18 22 2	MAR.	24 5 56	24 10 5
19 4 35	MAR	27 14 47	28 2 23		APRIL	22 18 40	23 2 19
]	APRIL	26 3 31	26 10 44		MAY.	22 7 24	22 16 44
	MAY.	25 16 15	25 17 42			(6 1 46	5 16 59
1	June .	24 4 59	24 0 22		O June .	20 20 8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
!	July.	23 17 43	23 7 51			20 8 52	20 15 30
	0	(7125	7 17 30	ĺ	JULY.	18 21 36	
1	Aug	22 6 27	21 17 11		AUG	18 21 36	
1	SEPT	20 19 11	20 5 16		SEPT		17 9 58
1	Ocr	20 7 55	19 20 26		Oct	16 23 4	16 19 32
	Nov.	18 20 39	18 14 17		Nov	15 11 48 30 6 10	15 6 0
}	DEC.	18 9 23	18 9 41		70		30 12 16   14 17 35
l		10 0 20	10 0 11		DEC	15 0 32	14 17 59
576.	JAN	(16 22 7	17 5 1		_		
E.D.	0	81 16 29	31 14 26	579.	Jan	13 13 16	13 6 18
	FEB	15 10 51	15 22 37	A.	FEB	12 2 1	11 20 11
18 10 24	MAR	15 28 85	16 13 25	19 3 51	MAR	13 14 45	13 11 5
	APRIL	14 12 19	15 1 9		APRIL	12 3 29	12 2 42
	MAY.	14 1 3	14 10 16		MAY.	∫11 16 13	11 18 30
	JUNE .	12 18 47	12 17 40		~ 0	26 10 35	26 9 11
ł	JULY.	(12 2 31	12 0 29		JUNE.	10 4 57	10 9 45
İ	0	26 20 58	26 19 54		July.	9 17 41	9 28 52
	Aug	10 15 15	10 7 49		Aug	8 6 25	8 12 37
	SEPT	9 8 59	8 16 38		SEPT	6 19 9	7 0 13
	Ocr	8 16 48	8 3 44		Oct	6 7 53	6 11 9
ł	Nov	7 5 27	6 17 33		Nov.	4 20 37	4 21 51
1	DEC	6 18 11	6 9 57		0	(19 14 59	19 11 45
1					DEC	4 9 21	4 8 37
577.	JAN	5 6 56	5 4 15		_		
C.	FEB	8 19 40	<b>8</b> 28 6	580.	JAN	2 22 6	2 19 33
18 16 18	MAR	5 8 24	5 17 8	G.F.	FEB	1 10 50	1 6 41
1	APRIL	8 21 8	4 8 52	18 9 40	MAR	1 23 34	1 18 12
	MAY .	8 9 52	8 21 58			31 12 18	31 6 31
	June.	1 22 86	2 8 29		APRIL	80 1 2	29 19 54
	JULY.	j 1 11 20	1 17 4		MAY .	29 13 46	29 10 26
		(81 0 4	81 0 47		JUNE.	28 2 30	28 1 45
	Aug	29 12 48	29 8 41		Jurx.	27 15 14	27 17 15
	SEPT	28 1 32	27 17 87		Aug	26 8 58	26 8 18
	Oct	27 14 16	27 4 11		SEPT.	24 16 42	24 22 29
	Nov	26 8 0	25 16 48		Ост.	24 5 26	24 11 39
1	_ 0	10 21 22	11 7 21		Nov.	22 18 10	22 28 55
	Drc	25 15 44	25 7 18		DEC	22 6 54	22 11 20
		***************************************	ork to define the amount				1

Mean Vernal	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
Equinox.		——————————————————————————————————————		A.D.			
A.D. 581.		d. h. m.	d. h. m.	584.		d. h. m.	d. h. m.
E.	JAN	20 19 38	20 21 55	March.	JAN	18 10 48	18 22 21
d. $h$ . $m$ .	FEB	19 8 22	19 7 50	d. $h.$ $m.$	Feb	16 28 82	17 18 21
18 15 28	MAR	20 21 6	20 17 25	18 8 55	MAR	<b>17 12 1</b> 6	18 1 18
	0	( 4 15 28	5 4 35		APRIL	16 1 1	16 10 87
	APRIL	19 9 50	19 3 22		MAY.	15 18 45	15 18 5
	MAY.	18 22 34	18 14 24		JUNE.	14 2 29	14 0 45
•	JUNE.	17 11 18	17 3 7		July .	18 15 18	13 7 41
	JULY.	17 0 2	16 17 44		Avg	12 8 57	11 16 2
	Aug	15 12 <b>4</b> 6	15 9 50		SEPT	10 16 41	10 2 45
	SEPT	(14 1 30	14 2 40		Ocr	10 5 25	9 16 26
	0	<b>\( 28 19 52 \)</b>	28 9 32		Nov	8 18 9	8 9 5
	Oct	13 14 14	13 19 18		DEC	8 6 58	8 8 54
	Nov	12 2 58	12 10 57				
	DEC	11 15 42	12 1 5	585.	JAN	f 6 19 87	6 28 26
	_		10 10 00	G.	0	(21 18 59	21 18 88
<b>582.</b>	JAN	10 4 26	10 13 26		FEB	5 8 21	5 17 58
	FEB	8 17 11	9 0 4	18 14 44	MAR	6 21 5	7 10 11
18 21 17	MAR	10 5 55	10 9 14		APRIL	5 9 49	5 28 22
	0	25 0 17	25 7 39		MAY .	4 22 88	5 9 89
	APRIL	8 18 39	8 17 28		June .	8 11 17	8 17 48
	MAY .	8 7 23	8 1 35		JULY.	§ 8 0 1	8 0 40
	JUNE.	6 20 7	6 10 35		0	17 18 28	17 15 15
	JULY.	6 8 51	5 21 26		1	f 1 12 45	1 7 58
	Aug.	4 21 35	4 10 46		Aug	<b>\ 181 1 29</b>	80 15 58
	SEPT.	3 10 19	3 2 37		SEPT	29 14 18	29 1 59
ļ	0	(18 4 41	18 1 34		Ocr	29 2 57	28 14 28
	Oct.	2 23 3	2 20 22	1	Nov	27 15 41	27 5 87
	Nov.	1 11 47	1 14 49		DEC	27 4 25	26 28 0
	DEC	1 0 31	1 8 39 31 0 42			(10.00.40	44 7 (30)
		(30 13 15	31 0 42		_ 0	10 22 48	11 5 28
583.	JAN	29 2 0	29 14 19	586. F.	JAN	25 17 10	25 17 85
C.	FEB	27 14 44	28 1 23	1	FEB	24 5 54	24 11 58
	. 0	∫14 9 6	<b>14</b> 7 46	18 20 33	MAR.	25 18 89	26 4 50
19 3 6	MAR.	29 3 28	29 10 20		APRIL	24 7 22	24 19 16
	APRIL	27 16 12	27 17 50		MAY .	28 20 6	
	MAY .	27 4 56	27 0 50		June.	22 8 50	22 16 84
	June .	25 17 40	25 8 27		O	7 8 12	6 17 1
1	JULY.	25 6 24	i		JULY.	(21 21 84	22 0 44
	AυG	23 19 8			Aug	20 10 18	20 8 87
	0	$\int 7 13 30$	1		SEPT.	18 28 2	
1	SEPT	(22 7 52	1		Oct	18 11 46	18 2 57
	Ост		1		Nov.	17 0 80	16 14 82
	Nov.	1	1		DEC	16 18 14	1
	DEC	19 22 4	20 4 41		0	181 7 86	81 18 48
L	<u> </u>	_1	ţ	11		1	1

Mean Vernal Equinox,	Month.	Mean New Moon. (O Full Ect.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Moan New Moon. (O Full Ecl.)	True New Moon.
إضاده بالمعنى				installment or the constraint.		(O F an 1301.)	
A.D. 587.		d. h. m.	d. h. m.	A.D. 590.		d. h. m.	d. h. m.
R. March.	JAN	15 1 58	14 19 21	A. March.	JAN	11 17 8	11 21 9
d, $h$ , $m$ .	FER	13 14 42	18 11 57	d. h. m.	FEB	10 5 52	10 7 13
19 2 21	MAR.	15 8 26	15 5 5	18 19 48	MAR	11 18 36	11 16 40
	APRIL	13 16 10	18 21 47		APRIL	[10 7 20]	10 2 6
	MAY .	18 4 54	18 18 6		0	(25 1 42	25 14 22
	JUNE.	[11 17 88]	12 2 32		MAY.	9 20 4	9 12 14
	O	(26 12 0	26 1 28		JUNE.	8 8 48	7 28 53
	JULY .	11 6 22	11 14 1		JULY.	7 21 32	7 13 31
	Atto	9 19 6	10 0 8		Aug	6 10 16	6 5 0
	SEPT.	8 7 50	8 9 25		SEPT	4 23 0	4 21 46
	Oct	7 20 84	7 18 55		Oct	\[ \begin{pmatrix} 4 11 44 \\ 10 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4 14 54
	Nov	6 9 18	6 5 8		O	(19 6 6	18 19 11
	DEC	5 22 2	5 16 7		Nov	3 0 28	8 7 24
588.	JAN	4 10 47	4 4 9		DEC	2 13 12	2 22 32
p.c.	FKB.	2 28 81	2 17 18			(1 1 56	1 11 51
18 8 10	MAR.	8 12 15	8 7 18	591.	JAN	80 14 41	80 28 17
10 0 10	Arri	2 0 59	1 22 20	o.	Fкв	(00 11 11	
	*******	1 18 48	1 18 56			(1 8 25	1 8 58
	MAYO	16 8 5	16 9 84	19 1 37	MAR	30 16 9	80 17 28
		81 2 27	81 5 28		APRIL	29 4 58	29 1 15
	JUNK.	29 15 11	29 20 18		MAY .	28 17 37	28 9 81
	July .	29 8 55	29 9 56		June .	27 6 21	26 19 13
	Aug.	27 16 89	27 22 21		July.	26 19 5	26 7 14
	SEPT.	26 5 28	26 9 50		Aug.	25 7 49	24 21 56
	Out.	25 18 7	25 20 50		SEPT	28 20 88	28 15 0
	0	( 9 12 29	9 6 6		Oct	28 9 17	23 9 26
	Nov.	24 6 51	24 7 42		Nov	21 22 1	22 8 56
	DEC	28 19 85	28 18 82		DEC	21 10 45	21 21 19
589.	JAN	22 8 20	22 5 25	592.	JAN	19 23 30	20 12 8
n,	Fen	20 21 4	20 16 28	F.E.	FEB	18 12 14	19 0 18
18 18 50	MAR.	222 9 48	22 4 2		0	<b>4</b> 6 86	4 8 21
	Arnil	20 22 82	20 16 88	18 7 26	MAR	(19 0 58	19 10 6
	0	5 16 54	6 2 15		APRIL	17 18 42	17 18 4
	MAY .	l 20 11 16	20 6 20		MAY .	17 2 26	17 1 5
	Junz .	18 28 59	18 21 14		JUNE .	15 15 10	15 8 10
	JULY .	18 12 48	18 12 48		July .	15 8 54	14 16 28
	Ana.	. 17 1 27	17 4 21		A.ug.	18 16 88	
	Sert.	. 15 14 11	15 19 18		0	(28 11 0	
	Ocr.	. 15 2 55	1		SEPT.	1	1
	0	29 21 17			Oct.	11 18 6	1
	Nov.	. 18 15 80	18 22 11		Nov.		1
	DEC.	. 18 4 28	18 10 10		DEC.	. 9 19 84	9 28 11
		1	(				

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 593.		d. h. m.	d. h. m.	A.D. 596.		d. h. m.	d. h. m.
D.	JAN	8 8 18	8 17 51	March.	JAN	5 23 28	5 15 41
March.	FEB	$\int 6212$	7 10 14	d. h. m.	FEB	4 12 12	4 7 28
d. h. m.	0	(21 15 24	21 9 49	18 6 41	MAR	5 0 56	5 0 10
18 13 14	MAR.	8 9 46	8 23 38		APRIL	3 13 40	8 16 58
	APRIL	6 22 30	7 10 5		MAY.	3 2 24	3 8 59
	MAY.	6 11 14	6 18 17		JUNE .	$\begin{cases} 1 & 15 & 8 \end{cases}$	1 28 25
	JUNE.	4 23 58	5 1 9		0	(16 9 30	16 0 88
	JULY.	4 12 42	4 7 49		JULY.	$\int$ 1 3 52	1 11 58
	Aug	3 1 26	2 15 25			(30 16 36	80 22 51
	~ 0	(17 19 48	18 0 37		Aug	29 5 20	29 8 42
	SEPT	1 14 10	{ 1 0 55   30 <b>13</b> 10		SEPT	27 18 4	27 18 18
	Oct	1 2 54	•		Ост	27 6 48	27 4 16
	37	(30 15 38	30 4 27		Nov	25 19 32	25 14 55
.	Nov.	29 4 22	28 22 19		_ 0	10 13 54	10 20 28
· /	DEC	28 17 6	28 17 38		DEC	(25 8 16	25 2 25
594.	Jan	27 5 51	27 12 48				
C.		(11 0 13	10 22 58	597.	Jan	28 21 1	28 14 46
	O Feb	25 18 35	26 6 12	F.	FEB	22 9 45	22 4 4
18 19 3	MAR.	27 7 19	27 20 51	18 12 30	Mar	23 22 29	28 18 20
10 13 3	APRIL	25 20 3	26 8 29		APRIL	22 11 13	22 9 28
	MAY.	25 8 47	25 17 35		MAY .	21 23 57	22 0 59
	JUNE .	23 21 31	24 1 4		0	5 18 19	5 16 88
	JULY.	23 10 15	23 8 6		June.	20 12 41	20 16 16
	0	(7 4 37	7 2 38		July .	20 1 25	20 6 41
	AUG	21 22 59	21 15 42		Aug	18 14 9	18 19 57
	SEPT	20 11 43	20 0 48		Sept	17 2 58	17 8 9
	Ост.	20 0 27	19 12 5		Oct	16 15 37	16 19 87
	Nov	18 13 11	18 1 56		Nov	[15 4 21]	15 6 48
	DEC	18 1 55	17 18 12		0	29 22 48	29 19 48
					DEC	14 17 5	14 17 86
595.	Jan	16 14 39	16 12 9				
В.	FEB	15 3 23	15 6 37	598.	JAN	13 5 49	18 4 28
19 0 52	MAR.	16 16 7	17 0 12	E.	FEB	11 18 83	11 15 5
	APRIL	15 4 51	15 15 51	18 18 19	MAR	13 7 17	18 2 4
	MAY .	14 17 35	15 4 56		APRIL	11 20 1	11 18 46
	June .	13 6 19	13 15 34		MAY .	11 8 45	11 2 88
	JULY.	12 19 3	13 0 26		JUNE .	9 21 29	9 16 55
	AUG	11 7 47	11 8 31		JULY .	9 10 13	9 8 14
	SEPT	9 20 31	9 16 58		Aug	7 22 57	8 0 2
	Oct	9 9 15	9 2 5		SEPT	6 11 41	6 15 86
	Nov	7 21 59	7 12 52		Oct	6 0 25	6 6 24
	DEC	7 10 43	7 1 23		Nov	4 18 9	4 20 10
	0	22 5 5	22 15 55		DEC	4 1 58	4 8 45
l	<u> </u>	1					

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 599.		d. h. m.	d. h. m.	A.D. 602.		d. h. m.	d. h. m.
D.	JAN	2 14 38	2 20 15	G.	JAN	28 18 31	29 6 22
<b>M</b> arch. d. h. m.	FEB	1 3 22	1 6 38	March. $d. h. m.$	FEB	27 7 16	27 21 15
19 0 7	MAR	2 16 6	2 16 8	18 17 34	MAR	28 20 0	29 9 3
		(1 4 50	1 1 14		APRIL	27 8 44	27 18 10
	APRIL O	15 23 12	16 11 45		MAY .	26 21 28	27 1 31
		30 17 31	30 10 41		JUNE .	25 10 12	25 8 10
	MAY .	30 6 18	29 21 18		JULY.	24 22 56	24 15 14
	JUNE .	28 19 2	28 9 48		Aug	23 11 40	22 23 46
	JULY.	28 7 46	28 0 24		SEPT	22 0 24	21 10 39
	Aug	26 20 30	26 16 46		Oct	21 13 8	21 0 28
	SEPT	25 9 14	25 10 4		Nov	20 1 52	19 17 10
	0	(10 3 36	9 17 58		DEC	19 14 36	19 11 54
1	Oct	24 21 58	25 3 15				
	Nov	23 10 42	23 19 23	603.	JAN	18 3 21	18 7 16
	DEC	22 23 26	23 9 46	F.	0	(1 21 43	1 22 14
600.	JAN	21 12 11	21 22 9		FEB	16 16 5	17 1 36
С. В.	FEB	20 0 55	20 8 32	18 23 23	MAR	18 4 49	18 17 36
18 5 56	MAR	20 13 39	20 17 20		APRIL	16 17 33	17 6 40
	0	(481	4 14 34		MAY .	16 6 17	16 16 56
	APRIL	19 2 23	19 1 10		June .	14 19 1	15 1 8
	MAY .	18 15 7	18 8 56		JULY .	(14 7 45	14 8 21
	JUNE.	17 3 51	16 17 41	}	0	29 2 7	28 21 53
	JULY .	16 16 35	16 4 24		Aug	12 20 29	12 15 40
	Aug.	15 5 19	14 17 46		SEPT	11 9 13	11 0 4
	SEPT	(13 18 3	13 9 51		Ост	10 21 57	10 10 19
	0	28 12 25	28 9 58		Nov	9 10 41	8 22 55
	Oct	18 6 47	13 3 55		DEC	8 23 25	8 13 58
	Nov	11 19 31	11 22 46				
	DEC	11 8 15	11 16 54	604.	JAN	(7129	7 7 3
601.	JAN	9 20 59	10 9 6	E.D.	0	22 6 31	22 14 13
A.	FEB.	8 9 43	8 22 39		FEB	6 0 53	6 1 13
18 11 45	MAR.	( 9 22 27	10 9 31	18 5 12	MAR	6 13 37	6 19 13
10 11 10	0	24 16 49	24 14 53		APRIL	5 2 21	5 11 48
	APRIL	8 11 11	8 18 10	ł	MAY .	4, 15 5	5 2 10
	MAY.	7 28 55	8 1 23		JUNE .	3 3 49	3 14 2
ĺ	JUNE .	6 12 39	6 8 13		JULY .	( 2 16 33	2 23 47
	July.	6 1 28	5 15 45		0	17 10 55	16 23 50
	Aug.	4 14 7	4 1 4		Aug.	5 1 5 17	1 8 19
	SEPT.	( 3 2 51	2 13 5		21.00.	(30 18 1	1
	0	17 21 13	18 1 13		SEPT	29 6 45	29 1 30
	Oct	2 15 85	2 4 10		Oct	28 19 29	28 11 36
	1	(1 4 19	(81 22 0		Nov.	27 8 13	26 23 16
	Nov.	80 17 8	30 17 23		DEC	26 20 57	26 12 36
	DEC	80 5 47	30 12 43	11	1		<u> </u>

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 605.		d. h. m.	d. h. m.	A.D. 608. <sub>G.F.</sub>		d. h. m. 23 0 52	d. h. m. 23 5 56
C.	0	$\int 10 \ 15 \ 20$	11 3 16	March.	JAN		
March.	JAN	25 9 42	25 3 29	d. h. m.	FEB	21 13 36	21 15 40
d. $h.$ $m.$	Fев	23 22 26	23 19 31	18 4 27	MAR	22 2 20	22 0 41
18 11 0	Mar	25 11 10	25 12 8		APRIL	20 15 4	20 9 85
	APRIL	23 23 54	24 4 29		0	5 9 26	5 21 26
	MAY .	23 12 38	23 19 44		MAY .	20 3 48	19 19 19
	JUNE.	22 1 22	22 9 18		June.	18 16 32	18 6 40
	0	6 19 44	6 8 37		July.	18 5 16	17 20 12
1	JULY.	21 14 6	21 21 10		Aug	16 18 0	16 11 51
1	Aug	20 2 50	20 7 42		Sept	15 6 44	15 5 0
	SEPT	18 15 34	18 17 35		Oct	£14 19 28	14 22 88
	Oct	18 4 18	18 3 31		0	29 13 50	29 8 47
	Nov	16 17 2	16 13 57		Nov	13 8 12	18 15 87
	DEC	16 5 46	16 1 1		DEC	12 20 56	13 7 6
000	T	14 10 90	14 12 47				
606.	JAN.	14 18 30		609.	JAN	11 9 40	11 20 32
1	FEB	13 7 14	13 1 21	E.	FEB	9 22 24	10 7 48
18 16 49	MAR.	14 19 58	14 14 49	18 10 16	Mar	11 11 8	11 17 10
	APRIL	13 8 42	13 5 17		APRIL	9 23 52	10 1 12
	MAY .	§12 21 26	12 20 29		MAY .	9 12 36	9 8 43
	-0	27 15 48	27 17 2		June :	8 1 20	7 16 43
1	JUNE .	11 10 10	11 11 55		JULY.	7 14 4	7 2 16
	JULY.	10 22 54	11 2 55		Aug	6 2 48	5 14 16
	Aug	9 11 38	9 17 1		SEPT	4 15 32	4 5 5
	SEPT	8 0 22	8 6 0		Oct	4 4 16	8 22 26
	Oct	7 13 6	7 18 5		Nov	2 17 0	2 17 15
	Nov	6 1 50	i		DEC	(2 5 44	2 12 3
	0	20 20 12	20 14 4		DEC.	31 18 28	•••
ł	DEC	5 14 34	5 16 38		}		
607.	JAN	4 3 19	4 3 27	610.	JAN	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 5 27
Α.	FEB	2 16 3	2 14 2	D.		(30 7 13	30 20 23
18 22 39	MAR	4 4 47	4 0 33		FEB	28 19 57	1 8 28
1	APRIL	2 17 31	2 11 31		0	(15 14 19	15 10 41
		(2 6 15	1 23 31	18 16 5	MAR.	(30 8 41	30 18 1
	May O	17 0 37	17 9 38		APRIL	28 21 25	29 1 42
	1	<sup>1</sup> 31 18 59	31 12 55		MAY .	28 10 9	28 8 31
1 '	JUNE .	30 7 43	30 3 43		JUNE.	26 22 53	26 15 81
	JULY .	29 20 27	29 19 28		JULY.	26 11 37	25 28 50
	Aυg	28 9 11	28 11 28		Aug	25 0 21	24 10 27
	SEPT	26 21 55	27 2 59		~ 0	8 18 48	
1	Oct	26 10 39	26 17 35		SEPT	23 13 5	23 0 4
	0	(10 5 1	9 17 18		Oct	23 1 49	22 16 48
	Nov.	. 24 23 23	25 6 58		Nov	21 14 33	21 11 88
	DEC	24 12 7	24 19 4		DEC	21 3 17	21 7 10
	1			II		1	

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Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 611.		d. h. m.	d. h. m.	A.D. 614.	·	d. h. m.	d. h. m.
С.	JAN	19 16 1	20 1 48	F.	0	(1 12 50	2 0 25
	FEB	18 4 45	18 18 7		Jan	16 7 12	16 0 2
March. $d. h. m.$	0	(423 7	4 17 44	March. $d. h. m.$	FEB	14 19 56	14 15 16
18 21 53	MAR	[19 17 30]	20 7 22	18 15 19	MAR	16 8 40	16 7 24
	APRIL	18 6 14	18 17 40		APRIL	14 21 24	14 23 46
	MAY .	17 18 58	18 1 44		MAY .	14 10 8	14 15 34
	June .	16 7 42	16 8 36		June .	(12 22 52	13 6 4
	JULY.	15 20 26	15 15 22		0	27 17 14	27 7 49
	Aug	(14 9 10	13 23 7		July.	12 11 36	12 18 55
	0	29 3 32	29 7 52		Aug	11 0 20	11 6 16
	SEPT	12 21 54	12 8 50		SEPT.	9 13 4	9 16 41
	Ocr	12 10 38	11 21 14		Oct.	9 1 48	9 2 46
	Nov	10 23 22	10 12 35		Nov.	7 14 32	7 13 6
	DEC	10 12 6	10 6 23		Dec	(7 3 16	6 23 53
					0	21 21 38	22 4 29
612.	JAN.	9 0 50	9 1 32				
B.A.	FEB		7 20 26	615.	JAN	5 16 0	5 11 12
	0	$\begin{cases} 7 & 18 & 84 \\ 22 & 7 & 56 \end{cases}$	22 7 21	E.	FEB	4 4 44	3 23 8
18 8 42	MAR.	8 2 18	8 13 28	18 21 8	MAR.	5 17 28	5 11 51
10 0 42	APRIL	6 15 2	7 4 7		APRIL	4 6 12	4 1 31
	May.	6 3 46	6 15 42		MAY.	3 18 56	3 16 9
	JUNE.	4 16 30	5 0 51		JUNE.	$\begin{bmatrix} 2 & 7 & 40 \\ 17 & 9 & 9 \end{bmatrix}$	2 7 26 17 0 4
	July.	4 5 14	4 8 30		0	(17 2 2	17 0 4 1 22 45
	Aug.		(2 15 47		JULY.	$\begin{cases} 1 & 20 & 24 \\ 31 & 9 & 8 \end{cases}$	31 13 33
ŀ	0	$ \begin{cases} 2 & 17 & 58 \\ 17 & 12 & 20 \end{cases} $	17 9 27			29 21 52	30 3 22
		(1 6 42	(31 23 41		Aug.	28 10 36	28 16 11
	SEPT	80 19 26	30 9 5		SEPT.	27 23 20	28 4 10
	Ocr	80 8 10	29 20 33		Oct.	00.40	26 15 36
	Nov.	28 20 54	28 10 23		Nov.	(11 6 26	11 3 41
	DEC.	28 9 88	28 2 25	1	DEC.	26 0 48	26 2 33
	2200			ll .			1
210	<b>T</b>	00 00 00	06 10 50	616.	JAN.	1	24 13 8
613. G.	JAN.	26 22 22	26 19 58	D.C.	FEB.		22 23 25
	FEB.	25 11 6	25 18 59	18 2 57	MAR.		23 9 48
18 9 81		26 28 51	27 7 16 25 22 44		APRIL		21 20 57
	APRIL	25 12 85	25 22 44 25 11 50		MAX		21 9 24
	MAY.				_ 0	5 10 51	
	June .	1	28 7 52		JUNE	1	
	JULY .	34 48 08		UI.	July	1	
	Aug.			11	Aug.		
	SEPT.	1		11	SEPT.		1
	Oor.	. 19 16 59	1	11	Ocr.	. 16 8 9	
	Nov.	477 40 00		- []	Nov.		
	Dic.	. 17 18 27	17 10 5	<b>'</b>	DEC.	. 14 9 87	7 14 17 36
1		1		11	1		

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 617.		d. h. m.	d. h. m.	A.D. 620.		d. h. m.	d. h. m.
B.	JAN	12 22 22	13 5 5	F.E.	JAN	10 13 31	10 20 40
March. d. h. m.	FEB	11 11 6	11 15 13	March. $d. h. m.$	FEB	9 2 15	9 14 14
18 8 46	MAR	12 23 50	13 0 18	18 2 12	MAR	9 14 59	10 4 58
	APRIL	(11 12 34	11 8 55		APRIL	8 3 43	8 16 36
	0	126 6 56	26 18 47		MAY .	7 16 27	8 1 37
	MAY .	11 1 18	10 17 55		June.	6 5 11	6 8 57
·	June.	9 14 2	9 4 12		JULY.	5 17 55	5 15 39
	JULY.	9 2 46	8 16 31		Aug	4 6 39	3 22 53
	Aug	7 15 30	7 7 11		SEPT	2 19 23	2 7 37
	SEPT	6 4 14	5 23 51	ļ	Oom	[287	1 18 43
	Oct	5 16 58	5 17 37		Ост	<b>\( \)</b> 31 20 51	31 8 39
	0	$120 \ 11 \ 20$	20 2 31		Nov	30 9 35	30 1 18
	Nov	4 5 42	4 11 18		DEC	29 22 19	29 19 51
İ	DEC	3 18 26	4 3 49				
610	-	( 2 7 10	2 18 24	621.	JAN	28 11 3	28 14 56
618.	JAN	31 19 54		D.	0	(12 5 25	12 8 44
	FEB		1 6 42		FEB	26 23 48	27 9 3
10 14 92	3/7	ſ 2 8 38	2 16 51	18 8 1	MAR	28 12 32	29 0 52
18 14 35	MAR	31 21 22	(1 1 16		APRIL	27 1 16	27 13 51
	0	(15 15 44	$15 \ 21 \ 22$		MAY .	26 14 0	27 0 7
	APRIL	30 10 6	(30 8 45		JUNE .	25 2 44	25 8 28
	MAY .	29 22 50	29 16 15		JULY.	24 15 28	24 15 56
	JUNE.	28 11 34	28 0 49		0	8 9 50	8 4 37
	JULY.	28 0 18	27 11 29		Aug	23 4 12	22 23 33
	Aug	26 13 2	26 0 55		SEPT	21 16 56	21 8 18
	SEPT	25 1 46	24 17 13		Oct	21 5 40	20 18 47
	0	9 20 8	9 18 28		Nov	19 18 24	19 7 27
	Ocr	124 14 30	24 11 35		DEC	19 7 8	18 22 20
	Nov	23 3 14	23 6 44				
	DEC	22 15 58	23 1 7	622.	JAN	17 19 53	17 15 4
619.	JAN	21 4 42	21 17 22	c.	0	( 1 14 15	1 22 51
G.	FEB	19 17 27	20 6 50		FEB	{16 8 37	16 8 47
18 20 24	MAR	21 6 11	21 17 29	18 13 50	MAR	17 21 21	18 2 21
	0	( 5 0 33	4 21 5		APRIL	16 10 5	16 18 42
	APRIL	19 18 55	20 1 53		MAY .	15 22 49	16 8 59
,	MAY .	19 7 39	19 8 55		June .	14 11 33	14 20 59
	JUNE .	17 20 23	17 15 38		JULY.	14 0 17	14 7 4
	JULY.	17 9 7	16 23 10		0	<b>128 18 39</b>	28 6 46
	Aug	15 21 51	15 8 34		Aug	12 13 1	12 16 1
	SEPT	γ14 10 35	13 20 42		SEPT	11 1 45	11 0 43
	0	29 4 57	29 9 24		Ост	10 14 29	10 10 1
	Oct	13 23 19	13 11 57		Nov	9 3 13	8 20 23
	Nov	12 12 3	12 5 53		DEC	. 8 15 57	8 8 4
	DEC	12 0 47	12 1 21				

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. C Full Ecl.)
A.D. 623. B.	т	d. h. m.	d. h. m.	A.D. 626. E.	Т	d. h. m.	d. h. m.
	JAN	7 4 41	6 21 8	March.	JAN	3 19 51	4 3 55
March.	0	121 23 3	22 11 42	d. h. m.	FEB	2 8 35	2 14 37
d. h. m.	FEB	5 17 25	5 11 30	18 13 5	MAR	3 21 19	3 23 58
18 19 39	MAR	7 6 9	7 2 58		APRIL	2 10 3	2 8 32
	APRIL	5 18 53	5 19 3			( 1 22 47	1 17 0
	MAY.	5 7 37	5 11 4		$May \circ$	316 17 9	17 4 24
	June.	3 20 21	4 2 16			31 11 31	31 2 21
	JULY.	[3 9 5]	3 16 5		June .	30 0 15	29 13 29
	0	18 3 27	17 15 52		July .	29 12 59	29 2 57
	A	f 1 21 49	2 4 21		Aug	28 1 43	27 18 49
1	Aug	l <sub>31</sub> 10 83	31 15 25		SEPT	26 14 27	26 12 21
	SEPT.	29 23 17	30 1 52		Oct	26 3 11	26 6 27
	Oct.	29 12 1	29 12 15		0	( 9 21 33	9 12 29
	Nov.	28 0 45	27 22 53		Nov.	24 15 55	24 23 53
	DEC.	27 13 29	27 9 55		DEC	24 4 39	24 15 38
	DE0	20 20			220		
624.	JAN	26 2 13	25 21 21	627.	JAN	22 17 23	23 5 6
A.G.	FEB	24 14 58	24 9 22	D.	FEB.	21 6 7	21 16 10
18 1 28	MAR	25 3 42	24 22 15	18 18 54	MAR.	22 18 52	23 1 14
	APRIL	23 16 26	23 12 8	10 10 04	APRIL	21 7 36	21 8 56
	MAY .	23 5 10	23 2 59		MAY.	20 20 20	20 16 10
	0	6 23 32	7 0 29		JUNE .	19 9 4	18 23 56
	JUNE .	21 17 54	21 18 21			18 21 48	18 9 24
1	JULY.	1	21 9 37		JULY.	17 10 32	16 21 26
	Aug.		20 0 11		Aug.		15 12 25
-	SEPT.		18 13 48		SEPT.	15 23 16	1
	Ост.	17 20 50	18 2 28		Oct	15 12 0	
	Nov.		(16 14 22		Nov.	14 0 44	1
		1 3 56	$\begin{cases} 30 & 22 & 6 \end{cases}$		DEC	13 13 28	13 20 11
	0	11	16 1 38	628.	7	12 2 13	12 13 41
	DEC.	. 10 22 10		C.B.	JAN.	10 14 57	
625.	JAN.	. 14 11 3	14 12 20		FEB.		
F.	FEB.	. 12 23 47	12 22 30	18 0 43	MAR.	$\left\{egin{array}{cccccccccccccccccccccccccccccccccccc$	1
18 7 17	MAR.	. 14 12 81	14 8 31		0	120	1
	Arrir	13 1 15	12 18 57		APRIL	_	1
	MAY	. 12 13 59	12 6 26	1	MAY		'   Table 1
	0	127 8 21	27 16 57	1	JUNE		·
	JUNE	. 11 2 43	10 19 31	.	JULY		مبــــــــــــــــــــــــــــــــــــ
	July		10 10 14	.∥	Aug.	١	
	Aug.	1 0 4 4 4	9 2 12	<u>.   </u>	SEPT.	·   /	5 3 18 5
	SEPT.			.	0	119 2 2	
	Oct.	7 5 89	1	11	Ocr.	. 3 20 4	1
	Nov.	1		H	Nov.	. 2 9 3	
	1,000.	20 12 4		11	DEC.	. \ \ 1 22 1	
	DEC.	. 5 7 7		11		\31 1 <b>1</b>	1 31 15 7
	DEC.		0 10 1	-			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 629.	•	d. h. m.	d. h. m.	A.D. 632.		d. h. m.	d. h. m.
Δ.	JAN	29 23 45	30 9 41	E.D.	0	(12 20 33	13 8 47
March.	FEB	28 12 29	(1 1 50	March.	JAN	27 14 55	27 8 17
d. h. m.	0	$\int 15 + 6 = 51$	$  \} 15                                  $	d. h. m.	FEB	26 3 39	25 22 57
18 6 32	MAR	(30 1 13	(30 14 55	17 23 58	MAR	26 16 23	26 14 30
ł	APRIL	28 13 57	29 1 7		APRIL	25 5 7	25 6 26
	MAY .	28 2 41	28 9 8		MAY.	24 17 51	24 22 3
	June .	26 15 25	26 16 3		JUNE.	23 6 35	23 12 40
	JULY.	26 4 9	25 22 57		0	§ 8 0 57	7 15 8
1	Aug	24 16 53	24 6 56		JULY.	22 19 19	23 1 54
	0	8 11 15	8 15 14		Aug	21 8 3	21 13 47
	SEPT	23 5 37	22 16 53		Sept	19 20 47	20 0 45
1	Oct	22 18 21	22 5 27		Ост	19 9 31	19 11 20
	Nov	21 7 5	20 20 47		Nov	17 22 15	17 21 59
	Dec	20 19 49	20 14 27		DEC	17 10 59	17 8 50
630.	T	10 004	10 0 01	600	0	$\int 1 522$	1 12 31
630. G.	JAN	19 8 34	19 9 21	633. c.	JAN	15 28 44	15 19 56
	FEB	17 21 18	18 3 58		FEB	14 12 28	14 7 25
18 12 21	0	<b>4 15 4</b> 0	4 15 37	18 5 47	Mar	16 1 12	15 19 81
10 12 21	MAR	15 20 40	19 20 52		APRIL	14 13 56	14 8 35
	APRIL	17 22 46	18 11 16		MAY .	14 2 40	13 22 46
1	MAY .	17 11 30	17 22 50		JUNE.	£12 15 24	12 13 52
	JUNE. JULY.	16 0 14	16 8 6		0	27 9 46	27 7 32
}		15 12 58	15 16 0	}	July.	12 4 8	12 5 19
1	AUG	14 1 42 28 20 4	13 23 36 28 16 23		Aug	10 16 52	10 20 30
	SEPT.	12 14 26			SEPT	9 5 36	9 10 54
	Oct.	12 14 20	12 7 51 11 17 33		Oct	8 18 20	9 0 20
	Nov.	10 15 54			Nov	7 7 4	7 12 51
	DEC.	10 15 54	10 5 10 9 18 55		Dec	6 19 48	7 0 32
	DEC	10 4 30	9 10 99		0	(21 14 10	21 11 41
631.	JAN	8 17 23	9 10 97	634.	JAN	5 8 32	5 <b>1</b> 1 <b>3</b> 0
F.	FEB	7 6 7	8 10 37 7 3 41	в.	FEB	3 21 16	3 21 45
18 18 10	MAR.	8 18 51		18 11 36	Mar	5 10 0	5 7 85
10 10 10	APRIL	7 7 35	8 21 16 7 14 11		APRIL	3 22 44	3 17 26
	MAY.	6 20 19	7 5 29		MAY .	3 11 28	3 4 3
	JUNE .	5 9 3	5 18 41		June .	5 2 0 12	1 16 6
	JULY .	4 21 47	5 5 47		0	16 18 34	17 0 28
	Aug.	3 10 31	3 15 22		JULY.	§ 1 12 56	1 5 57
	SEPT.	1 23 15	2 0 19		ouli.	(31 140	30 21 26
	DEII.	(1 11 59	1 9 29		Aug	29 14 24	29 18 57
	Ocr	81 0 43	30 19 27		Sept	28 3 8	28 6 87
	Nov	29 13 27	29 6 30		Oct	27 15 52	27 22 86
	DEC	29 2 11	28 18 47		Nov	26 4 36	26 18 18
	220	20 2 11	20 10 41		DEC	25 17 20	26 2 24
L	l ————————————————————————————————————	1	1				

Mean   Wernal   Month   Equinox.   Mean   New   Cornel   Equinox.   Month   Equinox.   Month			1					
635. A March. A. M. m. B 17 25  MAR 24 6 5 24 18 48 B 18 17 25  MAR 22 18 49  APRIL	Vernal	Month.	Moon.	Moon.	Vernal	Month.	Moon.	Moon.
March.  d. h. m.  d. h. m.  18 17 25  Mar 22 18 49 22 28 38 3  April 22 29 17 22 16 31  O			d. h. m.	d. h. m.			d. h. m.	d. h. m.
March.   A   Red.		JAN	24 6 5	24 13 48		JAN.	20 21 15	21 4 33
Name		FEB	22 18 49	22 23 38			1	
APRIL		MAR.	24 7 33	24 8 19				1
O			1		10 10 01			· .
MAY . 22 9 1 22 1 7 JUNE . 20 21 45 20 11 7 JULY . 20 10 29 19 28 21 Aug 18 28 13 18 14 6 Sept 17 11 57 17 7 8 Oct (17 0 41 17 1 13 O 21 19 3 31 11 12 Nov 15 18 25 15 19 22 Dec 15 2 9 15 12 13 O 21 2 3 88 12 15 7 O 3 44 Aug 18 14 54 14 2 56 Feb 12 3 88 12 15 7 O 425 28 29 29 16 28 JULY . 8 19 18 Aug 10 7 32 10 16 21 April (11 5 6 11 19 7 O 25 28 29 29 6 18 41 Sept 5 20 46 5 8 14 Oct (5 9 30 5 0 44 Oct (5			1 (	11			į.	- 1
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Nov.   15 18 25   15 19 22   15 12 18   639.   Jan.   10 6 4   10 8 50   636.   Jan.   12 16 22   13 1 0   April   21 6 22   13 1 0   April   21 56   30   Mar.   12 16 22   13 1 0   April   21 56   30   Mar.   10 17 50   10 16 18   June   9 6 34   8 23 34   July   8 19 18   8 8 0   Aug.   7 8 2 6 18 41   Sept.   5 20 46   5 8 14   Oct.   5 9 30   5 0 44   Oct.   5 9 30   5 0 44   Oct.   3 0 40   2 16 41   Nov.   1 13 24   30 16 5   Sept.   3 11 56   3 7 36   Oct.   3 0 40   2 16 41   Nov.   1 13 24   30 16 5   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   S 14 46   Sept.   5 20 46   Sept.			ا زا					1 1
636. G.F.    Dec.   15 2 9   15 12 13   639.   C.   Feb.   (8 18 48 8 22 34		-	1 7	- 1		DEC	11 17 19	11 9 50
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July   S 19 18   S 8 0   Aug.   Aug.   Aug.   4 23 12   4 23 36     Aug.   7 8 2   6 18 41     Sept.   5 20 46   5 8 14     Oct.   5 9 30   5 0 44     Oct.   6 9 50   20 3 7     Nov.   8 22 14   3 19 22     Dec.   8 10 58   3 14 46     Feb.     1 1 32     State   Aug.   4 23 12   4 23 36     Oct.   3 0 40   2 16 41     Nov.   1 13 24     1 2 8   30 16 5     30 14 52   30 6 44     Oct.   3 0 40   2 16 41     Nov.   1 13 24     1 2 8   30 16 5     30 14 52   30 6 44     Oct.   3 0 40   2 16 41     Nov.   1 13 24     1 2 8   30 16 5     30 14 52   30 6 44     Oct.   3 0 40   2 16 41     Nov.   1 13 24     1 2 8   30 16 5     30 14 52   30 6 44     Oct.   3 0 40   2 16 41     Nov.   1 13 24     1 2 8   30 16 5     30 14 52   30 6 44     Oct.   3 0 40   2 16 41     Nov.   1 13 24     1 2 8   30 16 5     30 14 52   30 6 44     Oct.   3 0 40     1 2 8   30 16 5     30 14 52   30 6 44     Oct.   3 0 40     1 2 8   30 16 5     30 14 52   30 6 44     Oct.   3 0 40     1 2 8     30 16 5     30 14 52   30 6 44     Oct.   3 0 40     1 2 8     30 16 5     30 14 52   30 6 44     Oct.   3 0 40     1 2 8     30 16 5     30 14 52     30 6 44     Oct.   3 0 40     1 2 8     30 16 5     30 14 52     30 6 44     Oct.   3 0 40     1 2 8     30 16 5     30 14 52     30 6 44     Oct.   3 0 40     3 0 40     4 18 24     5 0 16 5			1 1	· · · · · · · · · · · · · · · · · · ·				
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Feb		Jan	12	2 9 16	640.	Jan	29 3 36	28 23 0
18 5 8 MAR \begin{pmatrix} 2 & 1 & 10 & 2 & 14 & 51 \\ 81 & 18 & 54 & 54 & 50 \\ APRIL & 29 & 15 & 22 & 29 & 16 & 23 \\ June & 28 & 4 & 6 & 27 & 28 & 3 \\ July & 27 & 16 & 50 & 27 & 6 & 38 \end{pmatrix} \begin{pmatrix} Feb. & \chince 27 & 16 & 20 & 27 & 16 & 11 \\ MAR. & 28 & 5 & 4 & 28 & 9 & 20 \\ APRIL & 26 & 17 & 48 & 27 & 1 & 26 \\ MAY & 26 & 6 & 32 & 26 & 15 & 42 \\ June & 28 & 4 & 6 & 27 & 28 & 3 \\ July & 27 & 16 & 50 & 27 & 6 & 38 \end{pmatrix} \begin{pmatrix} Feb. & \chince 27 & 16 & 20 & 27 & 16 & 11 \\ MAR. & 28 & 5 & 4 & 28 & 9 & 20 \\ MAY & 26 & 6 & 32 & 26 & 15 & 42 \\ June & 24 & 19 & 16 & 25 & 3 & 55 \\ July & 24 & 8 & 0 & 24 & 14 & 22 \\ June & 27 & 16 & 50 & 27 & 6 & 38 \end{pmatrix} \begin{pmatrix} Feb. & \chince 27 & 16 & 20 & 27 & 16 & 11 \\ MAR. & 28 & 54 & 28 & 9 & 20 \\ MAY & 28 & 6 & 32 & 26 & 15 & 42 \\ July & 27 & 16 & 50 & 27 & 6 & 38 \end{pmatrix} \begin{pmatrix} Feb. & \chince 27 & 16 & 20 & 27 & 16 & 11 \\ MAR. & 28 & 54 & 28 & 9 & 20 \\ MAY & 28 & 26 & 6 & 32 & 26 & 15 & 42 \\ July & 27 & 16 & 50 & 27 & 6 & 38 \\ MAY & 27 & 18 & 47 \\ MAY & 27 & 18	16.	Free		1 1 32			(12 21 58	13 7 21
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A.D. 641.		d. h. m.	d. h. m.	A.D. 644.		d. h. m.	d. h. m.
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	JULY.	(13 16 49	13 22 53		JULY .	10 7 59	9 20 23
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	Aug	12 5 33	12 11 39		SEPT.	7 9 27	7 1 55
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	Ocr	10 7 1	10 10 17		Nov	5 10 55	5 14 22
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	DEC	8 8 29	8 7 53		DEC	4 23 39	5 8 10
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642. F.	FEB	5 9 58	5 5 51	645.	JAN	3 12 23	4 0 7
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d. h. m. 18 15 11	MAR O APRIL	10 7 29 \{11 20 13 \{26 14 35 \{10 8 57\}\}	10 17 24 12 9 24 26 9 18 10 22 21	March. d. h. m. 18 8 37	FEB MAR APRIL	\( \begin{array}{cccccccccccccccccccccccccccccccccccc	23 17 4 6 16 29 8 6 32 6 21 31
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	Aug Sept O	$ \begin{cases} 6 & 11 & 53 \\ 5 & 0 & 37 \\ 19 & 18 & 59 \\ 4 & 13 & 21 \end{cases} $	6 6 40 4 14 55 19 22 43 4 1 7		O AUG SEPT	19 8 41 3 3 3 1 15 47 (1 4 31	18 22 34 3 8 58 1 21 25 1 8 58
	Nov DEC	$ \begin{cases} 3 & 2 & 5 \\ 2 & 14 & 49 \\ \dots \end{cases} $	2 13 49 2 5 6 31 22 33		Nov Dec	\begin{cases} \ 30 & 17 & 15 \ 29 & 5 & 59 \ 28 & 18 & 43 \end{cases} \]	30 20 2 29 6 56 28 17 46
648. F.E.	Jan Feb	$ \begin{cases} 1 & 3 & 33 \\ 80 & 16 & 17 \\ 29 & 5 & 1 \end{cases} $	30 17 4 29 11 20	651. в.	O Jan Feb	$ \begin{cases} 12 & 13 & 5 \\ 27 & 7 & 27 \\ 25 & 20 & 11 \end{cases} $	12 20 23 27 4 36 25 15 34
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June . 20 14 17 20 6 58 July . 20 8 1 19 15 18 Aug 18 15 45 18 2 1 Sept 17 4 29 16 15 48 Oct (16 17 13 16 8 23 Oct (16 17 13 16 8 23 Oct 14 18 41 14 22 46 Oct 15 0ct			1.7			_	1	17 14 23
July . 20 8 1 19 15 18 Aug 18 15 45 18 2 1 Sept 17 4 29 16 15 48 Oct {16 17 13 16 8 23} O {31 11 35 31 11 49} Nov 15 5 57 15 3 14 Dec 14 18 41 14 22 46  655. D. Feb 11 20 9 12 9 31 18 13 42 April (31 21 37 12 8 57) O (32 14 16 15 59 26 11 40) May . 11 10 21 11 16 59  Aug {15 6 55   15 7 23   30 1 17   29 18 26   30 18 18			1				16 18 11	16 23 14
Aug. 18 15 45 18 2 1 Sept. 17 4 29 16 15 48 Oct. 616 17 18 16 8 28 Oct. 15 5 57 15 3 14 Dec. 14 18 41 14 22 46  655. D. Feb. 11 20 9 12 9 31 18 13 42 April 61 5 59 26 11 40 May 11 10 21 11 16 59  Aug. 18 15 45 Oct. 13 19 39 13 15 47 Oct. 18 19 39 13 15 47 Oct. 11 9 51 11 17 29 18 26 Sept. 13 19 39 13 15 47 Oct. 11 19 13 15 47 Oct. 11 9 51 11 11 2 6 Sept. 13 19 39 13 15 47 Oct. 11 9 51 11 11 2 6 Sept. 13 19 39 13 15 47 Oct. 11 9 51 11 10 24 Sept. 13 19 39 13 15 47 Oct. 11 9 51 11 12 6 Sept. 13 19 39 13 15 47 Oct. 11 9 51 11 12 6 Sept. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 11 9 51 11 12 6 Sept. 13 19 39 13 15 47 Oct. 11 9 51 11 12 6 Sept. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 11 21 7 11 12 6 Sept. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 11 21 7 11 12 6 Sept. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 11 21 7 11 12 6 Sept. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 11 21 7 11 12 6 Sept. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 11 21 7 11 12 6 Sept. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 39 13 15 47 Oct. 13 19 49 Oct. 11 21 7 11 12 6 Sept. 14 10 12 11 12 6 Sept. 15 18 19 39 13 15 47 Oct. 15 19 40 Oct. 11 21 7 11 12 12 7 Oct. 13 19 49 Oct. 11 21 7 11 12 6 Sept. 14 10 12 11 12 6 Sept. 15 19 30 13 15 47 Oct. 15 19 40 Oct. 11 21 7 11 12 1 11 12 10 Oct. 11 21 7 11 12 12 11 11 12 11 11 11 12 11 11 11						1 .	(15 6 55	15 7 23
SEPT 17 4 29 16 15 48 OCT			1			1	30 1 17	29 18 26
Oct (16 17 18 16 8 28			1	1			1	13 15 47
655. Jan 13 7 25 13 17 19 DEC 14 18 41 14 22 46  655. D. Feb 11 20 9 12 9 31 18 13 42 Mar 13 8 53 13 22 42 April O	1		1	16 8 23		Oct.	13 8 23	13 1 11
Nov.   15   5   57   15   3   14			19			Nov.	11 21 7	11 12 6
655.       Jan.       13 7 25       13 17 19       G.       Feb.       9 22 36       9 15 6         655.       Jan.       13 7 25       13 17 19       G.       Feb.       8 11 20       8 6 51         18 13 42       Mar.       13 8 53       13 22 42       18 7 8       Mar.       10 0 4       9 23 29         April       (11 21 87)       12 8 57       April       8 12 48       8 16 11         May       11 10 21       11 16 59       June       6 14 16       6 22 28		1		15 3 14		DEC.	11 9 51	11 0 44
655. D. Feb. 11 20 9 12 9 31 18 17 19	1			14 22 46	l			
D. FEB 11 20 9 12 9 81 O \ 23 5 42 23 15 43 18 13 42 MAR 13 8 53 13 22 42 18 7 8 MAR 10 0 4 9 23 29 April O \ 26 15 59 26 11 40 MAY . 11 10 21 11 16 59 JUNE . 6 14 16 6 22 23 15 43 15 15 43 15 15 15 15 15 15 15 15 15 15 15 15 15					658.	JAN		1
18 13 42 Mar 13 8 53 13 22 42 18 7 8 Mar 10 0 4 9 23 29  April (11 21 37 12 8 57) April (8 12 48 8 16 11 0) May . 11 10 21 11 16 59 June . 6 14 16 6 22 23	655.	JAN	13 7 25	13 17 19	G.	FEB	13	
APRIL   11 21 37   12 8 57   APRIL   8 12 48 8 16 11	D.	FEB	11 20 9	12 9 31		0	123 5 42	1
O 26 15 59 26 11 40 MAY . 8 1 32 8 8 5 MAY . 11 10 21 11 16 59 JUNE . 6 14 16 6 22 28	18 13 42	MAR.	13 8 53	13 22 42	18 7 8	MAR		1
May . 11 10 21 11 16 59 June . 6 14 16 6 22 28	1	APRIL	ſ11 21 37	12 8 57		APRIL	8 12 48	
11.11		0	126 15 59	26 11 40		MAY .	8 1 32	8 8 5
June 923 5 923 48 July 6 8 0 6 10 58		MAY .	11 10 21	11 16 59		JUNE.	6 14 16	6 22 28
1   0000   0 00 0   0 00 0   0 00 0   0 00 0		JUNE .	9 23 5	9 23 48		JULY.	6 8 0	6 10 58
July . 9 11 49 9 6 31 Aug 4 15 44 4 21 46		JULY .	9 11 49	9 6 31		Aug	1.7	
Aug 8 0 33 7 14 14 0 119 10 6 18 20 59	1	Aug	8 0 33	7 14 14		0	19 10 6	
Sept.   6 13 17   5 23 57     Sept.   3 4 28   3 7 41		SEPT.	, 6 13 17	5 23 57		1		
001.	1	Oct	. 6 2 1	5 12 25		Oct		
Most		0	120 20 23	21 2 4	1	Nov	1)	•
Nov.   4 14 45   4 3 53       (30 18 40   30 14 10	1	Nov.	. 4 14 45	4 3 53		1,04	1	
DEC 4 3 29 3 21 53 DEC 30 7 24 30 1 41	1 .	Dec.	. 4 3 29	3 21 53		DEC	30 7 24	30 1 41

1							
Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 659. F. March. d. h. m. 18 12 57	JAN  O FEB  MAR  APRIL	d. h. m.  28 20 8 12 14 30 27 8 52 28 21 37 27 10 21	d. h. m. 28 14 2 13 4 9 27 3 16 28 17 31 27 8 36	A.D. 662. B. March. d. h. m. 18 6 23	Jan Feb Mar April May .	d. h. m. 25 11 18 24 0 2 25 12 46 24 1 80 23 14 14	d. h. m. 25 21 20 24 7 83 25 16 12 23 23 56 23 7 41
	MAY . JUNE . JULY . O AUG SEPT OCT Nov DEC	26 23 5 25 11 49 25 0 83 8 18 55 23 13 17 22 2 1 21 14 45 20 3 29 19 16 13	27 0 4 25 15 18 25 5 44 8 6 46 23 19 2 22 7 17 21 18 48 20 5 56 19 16 51		JUNE . JULY . AUG SEPT OCT Nov	7 8 36 22 2 58 21 15 42 20 4 26 18 17 10 18 5 54 16 18 38 1 13 0 16 7 22	7 18 8 21 16 29 21 3 21 19 16 55 18 9 11 18 3 25 16 22 19 1 6 7 16 16 25
660. E.D. 17 38 46	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG . SEPT OCT . NOV	18 4 57 16 17 41 17 6 25 15 19 9 15 7 58 13 20 37 13 9 21 11 22 5 10 10 49 9 28 38 8 12 17	18 8 34 16 14 18 17 1 6 15 12 46 15 1 40 18 15 56 13 7 21 11 28 18 10 14 51 10 5 42 8 19 28 8 8 3 22 14 14	663. A. 18 12 12	JAN FEB MAR APRIL MAY . JULY . AUG SEPT OCT NOV DEC	14 20 7 18 8 51 14 21 35 13 10 19 12 28 3 11 11 47 11 0 31 9 13 15 8 1 59 7 14 43 6 3 27 5 16 11	15 8 29 18 21 51 15 8 30 13 16 59 13 0 7 11 6 56 10 14 32 9 0 1 7 12 14 7 3 34 5 21 33 5 17 0
661. c. 18 0 85	Jan Feb	5 8 58 4 16 42 8 5 26 17 23 48 2 18 10 1 6 54 30 19 38 29 8 22 28 21 6	80 16 3 29 9 27 29 2 42 27 18 48 11 18 36		JAN FEB MAR APRIL O MAY JUNE JULY AUG. SEPT. O OCT. NOV. DEC.	29 9 20 28 22 4 27 10 48	16 8 7 1 16 57 31 0 13 29 6 53 28 14 1 26 22 42 2 25 9 49 4 10 23 57 6 24 28 51 0 28 16 48

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 665.		d. h. m.	d. h. m.	A.D. 668.		d. h. m.	d. h. m.
E.	JAN	22 2 28	22 6 46	B.A.	JAN	<b>1</b> 9 <b>17 3</b> 8	19 12 2
d. $h$ . $m$ .	FEB	20 15 12	21 0 58	Manch	0	3 12 0	4 1 11
17 23 50	MAR	22 3 56	22 16 46	d. $h$ . $m$ .	FEB	18 6 22	18 0 34
	0	5 22 18	5 16 55	17 17 16	MAR	18 19 6	18 13 59
	APRIL	20 16 40	21 5 37		APRIL	<b>17</b> 7 50	17 4 24
	MAY .	20 5 24	20 15 43		MAY .	16 20 34	16 19 34
	June .	18 18 8	18 23 50		JUNE.	15 9 18	15 10 59
[	JULY.	18 6 52	18 7 5		JULY.	$  \int 14 \ 22 \ 2  $	15 1 59
	Aug	16 19 36	16 14 29		0	29 16 24	29 6 4
	SEPT	∫15 8 20	14 23 3		Aug	13 10 46	13 16 5
	0	30 2 42	30 6 17	·	SEPT	<b>11</b> 23 30	12 5 8
1	Oct	14 21 4	14 9 29		Oct	11 12 14	11 17 16
	Nov	13 9 48	12 22 17		Nov	10 0 58	10 4 47
	Dec	12 22 32	12 13 27		DEC	9 13 42	9 15 54
				669.	JAN	(8 2 27	8 2 40
666.	JAN	11 11 17	11 6 34	G.	0	22 20 49	23 4 17
ъ.	FEB	10 0 1	10 0 41		FEB	6 15 11	6 13 9
18 5 39	MAR	(11 12 45	11 18 33	17 23 5	MAR	8 3 55	7 23 36
	0	126 7 7	26 7 46		APRIL	6 16 39	6 10 31
	APRIL	10 1 29	10 10 59		MAY .	6 5 23	5 22 30
	MAY .	9 14 13	10 1 10		JUNE.	4 18 7	4 11 55
	June.	8 2 57	8 12 53	}	JULY.	f 4 6 51	4 2 47
	JULY.	7 15 41	7 22 36		0	19 1 13	18 22 35
	Aug	6 4 25	6 7 9		Aug	2 19 35	2 18 37
	SEPT	\[ \langle 4 17 9 \]	4 15 32		SEPT	f 1 8 19	1 10 42
	0	19 11 31	19 6 44		DEF I	30 21 3	1 2 17
1	Ocr	4 5 53	4 0 33		Ocr	30 9 47	130 16 54
	Nov.	2 18 37	2 10 48 1 22 35		Nov	28 22 31	29 6 17
	DEC	1)	31 11 58		DEC	28 11 15	28 18 20
		(31 20 5	21 11 20		0	∫12 5 38	12 3 35
	<b>.</b>	90 0 40	00 0 40	670.	JAN	27 0 0	27 5 6
667.	JAN.	80 8 49	30 2 49	F.	FEB	25 12 44	25 14 42
C.	FEB	28 21 34	28 18 51	18 4 54	MAR	27 1 28	26 23 85
18 11 28	MAR.	30 10 18	30 11 22 29 3 37		APRIL	25 14 12	25 8 27
	APRIL MAY.	28 23 2 28 11 46			MAY .	25 2 56	24 18 10
	JUNE.	25 11 46	28 18 45 27 8 15		JUNE .	23 15 40	23 5 37
	JULY.	26 13 14	26 20 5		0	8 10 2	8 15 18
	Aug.	25 1 58	25 6 40		JULY.	23 4 24	22 19 17
	SEPT.	23 14 42	23 16 39		Aug	21 17 8	21 11 5
	Oct.	23 3 26	23 2 41		SEPT	20 5 52	20 4 28
	Nov.	21 16 10	21 13 10		Oct	19 18 36	19 22 4
	DEC.	21 4 54	21 0 17		Nov.	18 7 20	18 15 6
					DEC	17 20 4	18 6 30
L	1	1		11	1	1	

Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 671.		d. h. m.	d. h. m.	A.D. 674.		d. h. m.	d. h. m.
March.	JAN	16 8 48	16 19 47	A	JAN	12 23 58	13 1 6
d. h. m.	FEB	14 21 32	15 6 54	March. $d. h. m.$	FEB	11 12 42	11 19 53
18 10 48	MAR	16 10 16	16 16 7	18 4 9	MAR.	13 1 26	13 12 54
	APRIL	14 23 0	15 0 0		APRIL	11 14 10	12 3 10
	MAY .	14 11 44	14 7 27		MAY .	11 2 54	11 14 34
	June.	13 0 28	12 15 29		June .	9 15 38	9 23 36
	JULY.	12 13 12	12 1 10		JULY.	9 4 22	9 7 14
	Aug	11 1 56	10 13 19		Aug	7 17 6	7 14 35
	SEPT	9 14 40	9 4 22		SEPT	6 5 50	5 22 37
	Oct	9 3 24	8 21 54		Ост	5 18 34	5 8 11
	Nov	7 16 8	7 16 48		Nov.	4 7 18	3 19 50
	0	22 10 30	22 4 52		DEC	3 20 2	3 9 49
	DEC	7 4 52	7 11 38			1	
				075	-	1 2 8 47	2 1 55
672.	JAN	5 17 37	6 4 54	675. G.	JAN	l31 21 31	31 19 27
D.C.	FEB	4 6 21	4 19 38		FEB		
17 16 82	MAR.	4 19 5	5 7 31			(2 10 15	2 13 22
	APRIL	3 7 49	3 16 52	18 9 58	MAR.O	17 4 37	17 7 37
	MAY .	ſ 2 20 33	3 0 27			31 22 59	(1 6 30
	0	17 14 55	17 17 8		APRIL	30 11 43	30 21 48
	T	1 9 17	1 7 13		MAY .	30 0 27	30 10 45
	JUNE.	30 22 1	30 14 16		JUNE .	28 13 11	28 21 30
	JULY .	80 10 45	29 22 42	1	JULY .	28 1 55	28 6 42
	Aug	28 23 29	28 9 31	ii.	Aug	26 14 39	26 15 16
	SEPT	27 12 13	26 23 23		0	(10 9 1	10 1 36
	Ocr	27 0 57	26 16 12		SEPT	25 3 23	25 0 5
	0	(10 19 19	10 20 39		Oct	24 16 7	24 9 51
	Nov	25 18 41	25 11 10		Nov	23 4 51	22 20 54
	DEC	25 2 25	25 6 45		DEC	22 17 35	22 9 25
673.	JAN	28 15 10	24 1 17	676.	JAN	21 6 19	20 23 23
В.	FEB.	22 8 54		F.E.	FEB.	19 19 3	19 14 35
17 22 21	1	28 16 38			0	( 5 13 25	5 23 55
1	APRIL	22 5 22	1	17 15 47	MAR.	20 7 47	20 6 40
	0	( 6 28 44	1	1. 20 2.	APRIL	18 20 31	18 22 55
	MAY .	11			MAY	18 9 15	18 14 36
1	June .				JUNE		17 5 2
1	July				July	1	16 17 51
	Aug.	1			Aug.	1.4.00.05	7 15 5 14
	SEPT.		1		0	29 17 49	9 29 4 20
	Oct.	. (10 9 4	1	.	SEPT.	. 13 12 11	13 15 41
	007.	14	8 31 10 35	- 11	Oct.	. 13 0 5	5 13 1 53
	Nov.	. 14 22 30		11		. 11 13 39	
	DEC.	14 11 1		11	DEC.	. 11 2 2	
	ياناء حد						

Mean Vernal Equipos,	Month	Mean New Mean, (c) Fall Ect )	True New Morn.	Monn Vernal Equipos	Missib.	Mesa Now Missa K ) Full Essi, is	Tine New Massa Fall Roll)
A.D.	y og it villes	d. h. m.	d, h. 🖦	A.D. 680.		. d.h ea	d. h. m
677.	JAN	0 15 7	9 10 27	A.10.	Jax	7 6 17	7 17 44
	Fan.	1 H B M	7 22 19	March. d. h. m	Fan.	5 49 4	6 5 54
March.		122 22 18	21 12 9	17 16 2	Man.	6 7 46	4- 15-40
d. h. m. 17 21 191	Man.	10 101 16i	0 11 0		Arnii.	4 (2) (2)	S 44 6
	Arnet.	н 6 20	H 0 H7		MAY .	4 9 11	4 7 34
	May .	7 14 4	7 15 14		Jinn .	1 2 21 tats	2.15 0
	dens.	H H 4M	0 0 20		ķ.	(117-16-20)	18 0 57
	Just .	6 10 BJ	6 21 50		Jess.	1/2 10 42	1 23 394
	Ara	1 4 8 10	4 17 184		59 E 1-1 1	्रिया क्षा क	111 10 25
	4 ₹	(to a me	IH 14 321		Ava	In 13 to	[ma ea 14
	Herr.,	3 31 0	8 3 80		Nert.	20 0 54	湖 祖 鄉
	(kr.	1 2 11 44	2 10 22		Oct.	13 13 BH	294 11 14
	1,71 1. 1	(81 53 84	1 1 H 25		Nov	27 2 24	27 0 19
	Nov	B) 11 12	(B) 14 61		- i)	111 20 44	11 15 1
	Dac.	20 23 56	80 1 48		Dac	1 20 18 G	A: 0 BM
			an 10 19			-	
878.	JAM	29 12 41	98 19 17	681.	Jan	25 3 51	25 16 45
С.	Fun.	27 1 25	26 22 27	r.	Fun.	28 10 86	24 5 50
18 8 25	Man.	28 14 9	28 8 47 26 19 54	17 20 51	Man.	25 5 19	25 16 25
	Arnil	97 9 58 96 15 87	26 19 54 26 8 22		APRIL	128 IN B	24 0 40
	MAY .	26 15 87 25 4 21	24 22 27		MAY .	28 0 47	V28 7 87
	June.	24 17 5	24 18 55		Jous .	21 19 81	21 14 22
	Avo.	20 B 40	28 6 10		JULY .	21 H 15	20 21 54
	Bert.	21 18 88	21 22 22		Ava	1 to 1900 face	19 7 32
	Oct.	21 7 17	21 18 49		Bert.	18 D 40	47, 19, 55
	Nov.	19 20 1	20 4 4		O. 7	17 22 27	17 11 23
	Dec.	19 8 45	19 16 54		Nov	16 11 11	16 6 28
					Dac.	15 20 65	14 11 50
	0	8 8 7	2 22 IA			-	
679.	JAN	117 21 20	18 4 15	682.	JAN.	11 12 18)	14 30 12
N.	Fan	16 10 18	16 14 16	*.	Fan.	18 1 22	18 18 86
18 9 14	MAR	17 22 57	17 28 18	18 2 40	Man.	11 11 7	15 4 0
	Arnii.	16 11 41	16 7 46		Armit	18 2 51	18 15 B1
	MAY .	16 0 25	15 16 48	i	MAY	12 15 85	15 0 21
	Junk.	114 18 0	14 8 8		Juna .	11 4 19	11 7 194
	()	120 7 81	29 14 45		July .	10 17 8	10 14 23
	July .		18 15 81		Aug.	9 6 47	w y1 48
	1	12 14 117	1		Mort.		7 6 86
	Sept.		1 3	3	Oct.	1	6 17 55
	1	10 16 5	3 9		0	22 1 87	23 8 12
		0 4 40 ( H 17 88	4 1		Nov	6 10 th	6 # 4
	DR.	120 11 55		§	Der	5 H 48	5 0 60
	1	f acr 22 500	, pp. 17 17	1		\$	
- Acetamorphisms	- CHARLES - HIS STORY	( Martines colores in their artists of colorescent	a na ku <b>rana m</b> akasan terini	19 <b>2,48(889</b> -44), 27(8-615), 71	I HATTONIA INT NA	n in the same as a sign	1647 141

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 683.		d. h. m.	d. h. m.	A.D. 686.		d. h. m.	d. h. m.
D.	JAN	<b>3 21 2</b> 8	3 19 28	G,	JAN	30 1 22	29 20 34
March. d. h. m.	FEB	2 10 12	2 14 28	Manak	0	13 19 44	14 9 11
18 8 29	Mar	3 22 56	4 8 23	March. $d. h. m.$	FEB	28 14 6	28 8 32
	APRIL	$\int 2 11 40$	3 0 0	18 1 55	MAR	30 2 50	29 21 20
	0	17 6 2	17 0 26		APRIL	28 15 34	28 11 12
1	MAY .	$\int 2 0 24$	2 12 46		MAY .	28 4 18	28 2 4
		(31 13 8	31 22 55		JUNE.	26 17 2	26 17 25
	June.	80 1 52	30 7 13		JULY.	26 5 46	26 8 42
	JULY.	29 14 36	29 14 43		•	10 0 8	9 13 40
	Aug	28 3 20	27 22 27		Aug	24 18 30	24 23 20
	SEPT	26 16 4	26 7 20 11 14 0		SEPT	23 7 14 22 19 58	23 12 59
	Ост	26 4 48	25 18 0		Oct Nov	21 8 42	23 1 42 21 13 37
	Nov.	24 17 32	24 6 49	*	Dec.	20 21 26	21 0 53
	DEC.	24 6 16	23 21 48		DE0		21 0 55
				687. F.	JAN	19 10 11	19 11 30
684.	Jan	22 19 1	22 14 32	F.	_ 0	3 4 33	3 12 2
с.в.	FEB	21 7 45	21 8 11	10 5 44	FEB	10 11 00	17 21 35
17 14 18	Mar	21 20 29	22 1 38	18 7 44	MAR	19 11 39	19 7 31
	0	$\int 5 14 51$	5 15 39		MAY.	18 0 23 17 13 7	17 17 53   17 5 23
	APRIL	20 9 13	20 17 49		June .	16 1 51	15 18 30
	MAY.	19 21 57	20 7 57		JULY.	(15 14 35	15 9 20
	JUNE.	18 10 41	18 19 51		0	30 8 57	30 6 15
	JULY.	17 23 25	18 5 54		Aug	14 3 19	14 1 25
	Aug Sept.	16 12 9	16 14 52 14 28 42		SEPT	12 16 3	12 17 58
	OEPT.	29 19 15	29 14 11		Ocr	12 4 47	12 10 10
	OUT	14 18 87	14 9 8		Nov	10 17 31	11 1 19
	Nov.	18 2 21	12 19 87		DEC	10 6 15	10 15 3
	DEC	12 15 5	12 7 24	688.	JAN	(8 18 59	9 3 10
				E.D.	0	23 13 21	23 11 25
685.	JAN	11 8 49	10 20 28		FEB	7 7 43	7 13 43
A.	FEB	9 16 88	9 10 49	17 13 83	Mar	7 20 27	7 22 57
17 20 7	MAR	11 5 17	11 2 14		APRIL	6 9 11	6 7 24.
	APRIL	9 18 1	9 18 14		MAY .	5 21 55	5 15 49
	MAY.	9 6 45	9 10 10		JUNE .	4 10 39	4 1 12
	JUNE.	7 19 29	8 1 17		JULY .	§ 3 23 23	3 12 26
	July.	7 8 18	7 15 8 6 3 20		0	18 17 45	18 22 37
	Aug Sept	5 20 57 4 9 41	4 14 27		Aug	2 12 7	$\begin{cases} 2 & 2 & 5 \\ 21 & 10 & 5 \end{cases}$
	Oct.	8 22 25	4 0 58		SEPT	$\begin{cases} 1 & 0.51 \\ 20.10.07 \end{cases}$	181 18 5
	Nov.	2 11 9	2 11 25		0	80 18 85	80 11 45
		( 1 28 58	1 22 7		Ocr	30 2 19 28 15 3	30 5 56 28 23 22
	DEC	81 12 37	81 9 10		Nov Dec	28 15 3 28 8 47	28 25 22
					DEC.	20 0 1	20 10 1

f	CAMP OF ST. 16 4 W.	all is received April 2 decises .	Mountain is the fire				111111111111111111111111111111111111111
Mean Vernal	Month.	Mean New	True New	Mean Vernal	Month	Mean New Marin	True New March
Kquines.		(O Full K-1.)		K-puisses#		to Frall Kirl .	Pull Kel :
	est diga nom		1.		4 94		
A.D.		d. h. m.	d. h. m.	A.D.	:	d. h. m.	d. A sa.
089.		4,		692.			70. 10 109.
	Jan	26 16 82	27 4 20	u.r March.	JAN	21 7 42	24 H 54
March, d. h. m.	Fan	25 5 16	25 15 14	d. h. m.	Fan	22 31 26	21 8 22
17 19 21	MAR.	26 18 0	27 0 A	17 19 46	Man.	28 9 10	A IN IN
** ***	Arnii.	25 6 44	25 7 49		Aran	21 21 64	22 10 17
	May .	24 19 29	24 14 58		Mar .	21 10 85	21 21 42
		28 H 12	21 21 11		Jenn .	10 23 22	31 6 t.7
	June.				_		
	Jun.	22 24 141			July.	19 12 6	10 14 45
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17 17 52 Mar. 28 6 41 28 7 13 17 11 19 Mar. 24 21 51 25 11 38 April 26 19 25 26 15 19 May 26 8 9 25 28 55 June 24 20 58 24 10 0 June 21 12 3 21 15 4 July 21 12 3 21 15 4 Aug. 22 23 21 22 21 22 18 19 Sept. 18 2 15 17 14 42	G-	ì	(			1		
APRIL 26 19 25 26 15 19  MAY . 26 8 9 25 28 55  JUNE . 24 20 58 24 10 0  O 9 15 15 9 21 59  JULY . 22 29 21 22 21 32 18 19  APRIL 28 10 35 23 22 57  MAY . 22 28 19 28 7 46  JUNE . 21 12 3 21 15 4  JULY . 21 0 47 20 21 57  AUG 19 18 31 19 5 32  SEPT 18 2 15 17 14 42		1						
MAY . 26 8 9 25 23 55   MAY . 22 23 19 23 7 46   JUNE . 24 20 58 24 10 0   JUNE . 21 12 3 21 15 4   O   JULY . 21 0 47 20 21 57   JULY . 22 29 21 22 21 31 9   SEPT 18 2 15 17 14 42	17 17 52				17 11 19		1	
June     24     20     58     24     10     0     June     21     12     3     21     15     4       O     9     15     15     9     21     59     July     21     0     47     20     21     57       July     24     9     37     28     22     28     Aug.     19     18     31     19     5     32       Aug.     22     22     21     22     13     19     5     21     12     17     14     42						1		
O JULY . 21 0 47 20 21 57 JULY . 21 0 47 20 21 57 Aug 19 13 31 19 5 32 Sept 18 2 15 17 14 42		MAY .						1
JULY .     24 9 37 28 22 28     Aug     19 13 31 19 5 32       Aug     22 22 21 22 13 19     Sept     18 2 15 17 14 42		JUNE .		1				1 -
Aug. 22 22 21 22 13 19 Sept. 18 2 15 17 14 42		0	13	1		1		
2200:		Jura					1	
		Aug.	-	1		1 -		
Supt. 21 11 5 21 6 26 Oct. 17 14 59 17 2 12		SEPT.			11	Oct.		t .
Ост 20 28 49 21 0 44 0 0 5 1 9 21 1 16 35	1					1 -	12	1
Nov 19 12 88 19 18 58 Nov 16 3 48 15 16 22	1							_
DEC 19 1 17 19 11 40 DEC 15 16 27 15 9 2		DEC.	. 19 1 17	19 11 40		DEC.	. 15 16 27	15 9 2

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 701.		d. h. m.	d. h. m.	A.D. 704.		d. h. m.	d. h. m.
В.	JAN	14 5 12	14 3 22	F.E.	JAN	11 20 21	11 17 59
d. $h$ . $m$ .	FEB	12 17 56	12 22 3	35 3	FEB	(10 9 5	10 5 0
17 17 7	MAR	14 6 40	14 15 39	d. $h$ . $m$ .	0	25 3 27	<b>25 17</b> 0
	APRIL	(12 19 24	13 7 5	17 10 34	Mar	10 21 49	10 16 23
1	0	27 13 46	27 7 53		APRIL	9 10 33	9 4 35
	MAY .	12 8 8	12 19 50		MAY .	8 23 17	8 17 56
	June .	10 20 52	11 6 5		JUNE .	7 12 1	7 8 30
	JULY .	10 9 36	10 14 36		JULY.	7 0 45	6 23 55
· 1	Aug	8 22 20	8 22 25		Aug	5 13 29	5 15 30
	SEPT	7 11 4	7 6 32		0	20 7 51	19 21 26
	Oct	6 23 48	6 15 47		SEPT	4 2 13	4 6 39
	0	21 18 10	21 21 49		Ост	3 14 57	3 20 56
	Nov	5 12 32	5 2 39		Nov	2 3 41	2 10 12
	DEC	5 1 16	4 15 27		DEC	∫ 1 16 25	1 22 28
					220	31 5 9	31 9 47
702.	JAN	3 14 0	3 6 9	705.	Jan	29 17 58	29 20 11
A.	FEB	2 2 44	1 22 25	D.	0	(13 12 15	13 19 36
17 22 56	MAR	3 15 28	3 15 32		FEB	28 6 38	28 5 54
	APRIL	(2 4 12	2 8 34	17 16 23	MAR	29 19 22	29 15 19
	0	16 22 34	16 23 25		APRIL	28 8 6	28 1 9
	MAY.	§ 1 16 56	2 0 31		MAY .	27 20 50	27 12 13
		31 5 40	31 14 41	•	JUNE .	26 9 34	26 1 7
	JUNE.	29 18 24	<b>3</b> 0 <b>2 4</b> 9		JULY .	25 22 18	25 15 57
	JULY.	29 7 8	29 13 15		0	( 9 16 40	9 13 59
	Aug	27 19 52	27 22 42		Aug	24 11 2	24 8 18
	SEPT	26 8 36	26 8 1		SEPT	22 23 46	23 1 21
	0	11 2 58	10 21 37	i i	Ocr	22 12 30	22 18 7
ļ	Oct	(25 21 20	25 17 49		Nov	21 1 14	21 9 46
	Nov.	24 10 4	24 4 29		DEC	20 13 58	20 23 46
	DEC	23 22 48	23 16 10	706.	JAN	19 2 43	19 11 54
	_			c.	0	(221 5	2 19 11
703.	JAN	22 11 33	22 4 55		FEB	17 15 27	17 22 13
G.	FEB	21 0 17	20 18 42	17 22 12	MAR	19 4 11	19 7 5
18 4 45	MAR.	22 13 1	22 9 29		APRIL	17 16 55	17 15 6
	APRIL	21 1 45	21 1 1		MAY .	17 5 39	16 28 9
	MAY .	20 14 29	20 16 41		JUNE .	15 18 23	15 8 15
	JUNE.	19 3 13	19 7 48		July .	(15 7 7	14 19 20
	JULY .	18 15 57	18 21 53		0	30 1 29	30 6 7
	AUG	17 4 41 15 17 25	17 10 40		Aug	13 19 51	13 9 2
	OCT.	15 17 25	15 22 23		SEPT	12 8 35	12 1 15
	Nov.	13 18 53	15 9 27 13 20 17		Ocr	11 21 19	11 19 17
	DEC.	13 7 37	13 7 8		Nov	10 10 3	10 13 54
		120 . 51	10		DEC	9 22 47	10 7 40
1			1	!	!	<u> </u>	<u> </u>

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (○ Full Ecl.)	True New Moon.
A.D. 707. B.	Jan	d. h. m. 8 11 31	d. h. m. 8 23 29	A.D. 710. E.	Jan	d. h. m. 5 2 41	d. h. m. 4 22 4
March. d. h. m.	FEB	7 0 15	7 12 44	d. h. m.	FEB	3 15 25	3 16 33
18 4 0	MAR	8 12 59	8 23 25	17 21 27	MAR	5 4 9	5 10 41
	APRIL	7 1 43	7 8 11		APRIL	3 16 53	· 4 3 11
	MAY.	6 14 27	6 15 18		MAY .	(3 5 37	3 17 15
	JUNE.	5 3 11	4 22 16		0	17 23 59	17 16 8
	JULY.	4 15 55	4 5 59		JUNE .	1 18 21	2 4 44
	Aug	3 4 39	2 15 35		JULY.	§ 1 7 5	1 14 7
	SEPT	1 17 23	$\begin{cases} 1 & 3 & 54 \\ 20 & 10 & 10 \end{cases}$		OULI.	30 19 49	30 22 19
1	Oct	1 6 7	₹30 19 16		Aug	29 8 33	29 6 23
		(30 18 51	30 13 15		SEPT	27 21 17	27 15 9
	Nov	29 7 35	29 8 38		Oct	27 10 1	27 1 18
}	0	<b>∫14</b> 1 57	13 22 44		Nov	25 22 45	25 13 9
	DEC.	28 20 19	29 3 49		Drc	25 11 29	25 2 49
700	T	27 9 4	27 21 12				
708.	JAN.	25 21 48	26 11 45	711.	JAN	24 0 14	23 18 11
ł	FEB.	26 10 32	26 23 17	D.	FEB	22 12 58	22 10 42
17 9 49	MAR.	24 23 16	25 8 14	18 3 16	MAR	24 1 42	24 3 38
1	APRIL	24 12 0	24 15 29		0	§ 7 20 4	7 23 33
1	MAY .	(8 6 22	8 6 2		APRIL	22 14 26	22 20 5
	JUNE.	23 0 44	22 22 6		MAY .	22 3 10	22 11 10
1	JULY.	22 13 28	22 5 12		JUNE.	20 15 54	21 0 25
	Aug.	21 2 12	20 13 53		JULY.	20 4 38	20 11 48
1	SEPT.	19 14 56	19 1 1		Aug	18 17 22	18 21 53
	Oct.	19 8 40	18 15 8	i i	SEPT	17 6 6	17 7 26
ĺ	Nov.	17 16 24	17 8 9		Oct	16 18 50	16 17 9
		( 2 10 46			Nov.	15 7 34	15 3 30
	DEC.	17 5 8	1		DEC	14 20 18	14 14 39
					_		
709.	JAN	15 17 52	15 22 33	712.	JAN	13 9 2	13 2 43
y.	FEB	14 6 37	14 16 48	C.B.	FEB	11 21 47	11 15 44
17 15 88	MAR	15 19 21	16 8 34	17 9 5	MAR.	12 10 31	12 5 44
	APRIL	14 8 5	14 21 20		0	27 4 53	27 15 53
1	MAY .	∫1 <b>3</b> 20 <b>4</b> 9	1		APRIL	10 23 15	10 20 59
	0	28 15 11	i	11	MAY .	10 11 59	1
	JUNE .	12 9 83	1		JUNE .	i	8 18 21
	JULY .	}	1	1	JULY .	1	1
	Aug		1		AUG.		1
	SEPT.	· 1		1	SEPT.	20 9 17	
	Oct.	8 12 29	مدمدما		OCT.	5 3 39	
	Nov.	13			Nov.	1	1
	0	21 19 35			DEC.		
	DEC.	. 6 13 57	6 4 35		- DEO		
1				H			

Mean Vornal Equinos.	Month.	Mean New Moon, ( ) Full Ect )	True New Marks	Mean Vornal Equinos	Manth.	Maan Now Moon Full Kell	True Yes Maria Full Kell)
	Comment.				r pps of		1
A.D. 713.		d. h. m.	d. h. m.	A.D. 718.		d. h. m.	d. h. m.
۸.	T	1 1 17 51	1 16 50	8.D.	O	/14 11 221	18 20 H
	JAM	tar a m	BI B 45	March.	JAN	1 2m 21 45	20 10 26
March.	Fun			d. h. m	Fun.	27 10 29	27 22 29
d. h. m.		( 1 19 19	1 14 89	17 H 20	Man	27 23 18	24 7 64
17 14 68	Man. O	310 18 41	17 8 40		Arnii.	20 11 57	36 I5 85 I
		(81 H B)	B1 2 6		MAY .	26 0 41	25 22 2M
	Armi	20 20 47	20 14 31		Junn.	24 18 25	24 6 87
	MAY .	20 9 81	29 4 28		O	1 10 7 47	0 14 82
	Junn .	27 22 15	27 10 22		July .	124 2 5	23 14 9
	Jun.	27 10 50	27 11 8		Attu	22 14 Mi	29 1 4
	Avo	25 28 48	26 2 44		Bert.	21 8 87	20 15 0
	O	[ 9 18 6	9 6 7		Our	20 16 21	90 7 69
	HEPT	124 12 27	24 17 47		Nov	19 5 6	19 2 W
	Our	24 1 11	94 7 59		Dist	18 17 49	18 22 22
	Nov	22 18 55	22 40 50				
	Dac	37 3 30	22 8 42		0	8 12 12	2 8 48
714	JAN	20 15 24	20 19 81	717.	JAN	17 6 84	17 16 50
714. a.	-	19 4 8	19 8 21	c.	Fun	15 19 18	16 8 49
17 20 42	Pas.	20 16 52	20 14 86	17 14 9	Man	17 8 2	17 21 46
11 80 48	MAR.	19 5 86	18 28 58		Arait	16 30 46	16 7 50
	APRIL MAY .	18 18 90	18 10 1		MAY .	18 9 80	15 15 44
	JUNE .	17 7 4	16 21 48		Jour .	(18 22 14	18 22 81
	June .	16 19 48	16 11 88		0	/ Set 10 Bei	19H 16 14H
	Ano.	15 8 82	15 8 25		July .	18 10 60	18 5 17
	Sept.	18 21 16	18 20 26		Aun.	11 25 42	11 18 7
	-	18 10 0	18 18 42		BEFT.	10 15 30	0 2A 1
	Nov.	11 22 44	12 6 16		Oct.	10 1 10	0 11 48
1	F1	11 11 28	11 21 18		Nov	H 10 64	H H H
	DEC				Date:	H 2 B-	7 21 (3)
718.	JAN	(10 0 12	10 10 25	718.	7	0 15 22	6 16 50
₽.	0	124 18 84	24 14 15	H.	Fun.	6 4 6	6 11 45
	Fan.	8 12 56	8 21 112	17 19 58	Man.	8 10 50	7 4 47
18 2 81	Man.	10 1 40	10 8 14	AE 41 PM	Arnii	5 5 B4	b in the
	APRIL	8 14 24	8 15 4		May .	4 1N 1M	5 6 14
	MAY .	8 8 H	7 22 44		June .	8 7 9	8 15 4
	Junn .	6 15 52	8 7 5		July .	2 19 46	2 22 20
	JULY .	6 4 86	6 16 69			( ) N 200	1 6 97
-	0	130 33 BH	71 g 18		Ava	80 21 14	100 18 2M
	Ave.	4 17 20	4 5 19		BEFT.		24 23 5A
	SEPT.		9		Oct.	20 22 42	
	Ост	2 18 48	2 18 40		1	/12 17 4	18 0 69
	Nov	1 7 82	1 8 99		Nov.	97 11 20	27 O 46
	1	/80 80 18	[ 1 8 1		Dec.	1	
	DEC	80 9 0	180 20 2			# W M	
I CONTRACTOR CONTRACTO	1	•	T	14			

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Mean Vernal	Month.	Moon.	True New   Moon.	Mean Vernal	Month.	Mean New Moon.	True New Moon.
Equinox.	(	(O Full Ecl.)	O Full Ecl.)	Equinox.		(O Full Ecl.)	O Full Ecl.)
A.D.		d. h. m.	d. h. m.	A.D.		d. h. m.	d. h. m.
719. 4.	_			722. D.	_		
March.	JAN		25 11 10	ъ.	JAN	22 4 5	22 2 45
d. h. m. 18 1 46	FEB Mar	24 1 39 25 14 23	24 5 26    25 22 44	March.	FEB	20 16 49	20 13 19 8 0 40
18 1 46	APRIL	25 14 25	24 14 0	d. h. m. 17 19 13	MAR	22 5 33	22 0 8
	O	6 8 21 29	8 15 13	11 13 15	APRIL	20 18 17	20 11 45
	MAY.	23 15 51	24 2 46		MAY.	20 7 1	20 0 39
	JUNE .	22 4 35	22 13 12		JUNE .	18 19 45	18 14 59
	JULY.	21 17 19	21 22 2		JULY.	18 8 29	18 6 27
	Aug.	20 6 3	20 6 14		Aug	(16 21 13	16 22 23
	SEPT.	18 18 47	18 14 46		0	31 15 35	31 5 20
	Oct.	18 7 31	18 0 20		SEPT	15 9 57	15 14 6
	0	(2 1 53	$2 5\ 42$		Oct	14 22 41	15 5 0
	Nov	16 20 15	16 11 22		Nov	13 11 25	13 18 47
	DEC	16 8 59	16 0 5		DEC	13 0 9	13 7 20
				723.	JAN	11 12 54	11 18 40
720.	JAN.	14 21 44	14 14 29	с.	FEB	(10 1 38	10 4 50
G.F.	FEB	13 10 28	13 6 13		0	24 20 0	25 3 4
17 7 85	MAR.	13 23 12	13 22 47	18 1 2	MAR	11 14 22	11 14 6
	APRIL	(12 11 56	12 15 24		APRIL	10 3 6	9 23 1
	0	127 6 18	27 7 5		MAY .	9 15 50	9 8 24
	MAY .	12 0 40	12 7 9		June .	8 4 34	7 19 6
	JUNE .	10 13 24	10 21 22		JULY .	7 17 18	7 7 49
	JULY.	10 2 8	10 9 49		Aug	$\begin{cases} 6 & 6 & 2 \end{cases}$	5 22 42
	Aug.	8 14 52	8 20 41		0	21 0 24	20 21 51
	SEPT.	. 7 3 36	7 6 40	1	SEPT	4 18 46	4 15 20
	Ocr	, <b>  6 16 2</b> 0	1	ll .	Oct	4 7 30	4 8 52 3 2 11
	0	121 10 42	1		Nov.	i	1 1
	Nov.		5 2 37	1	DEC.	$\left\{ egin{array}{cccccccccccccccccccccccccccccccccccc$	
	DEC.	. 4 17 48	4 13 26	1		(31 ZI 42	1
				724.	JAN.		1 8 27
721.	Jan.	. 3 6 32		B.A.	0.22.	130 10 26	1 1
E.	FEB.	. 1 19 16	1	11	_ 0	14 4 48	1
17 18 2	4 MAR.			11	FEB.		
	APRII	1		11		00 000	
	MAY	$\begin{cases} 1 & 9 & 28 \\ 22 & 22 & 34 \end{cases}$	1	11	APRII		
		(80 22 1		11	MAY	00 0	
	JUNE			11	JUNE	07 44 70	1
	July	0 40 0	1	11	JULY	9 9 1	
	Aug.			. 11	Aug.	Karaa	_
	SEPT.		T	<b>.</b>	SEPT.	00 40 4	_
	Oct.	. 25 13 55			Oct.	I	2 22 2 56
	Nov.			4	Nov.	20 17 4	
	Dr.	. 20 10 2	2010	~	DEC.	20 6 3	1
1	- 1	1	1	- 11	, 20101		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 725.		d. h. m.	d. h. m.	A.D. 728.		d. h. m.	d. h. m.
G.	JAN	18 19 15	19 7 50	D.C.	JAN	16 10 25	16 6 5
d. h. m.	FEB	17 7 59	17 21 0	d. $h$ . $m$ .	FEB	14 23 9	15 0 7
17 12 39	MAR	18 20 43	19 7 27	17 6 6	MAR	15 11 53	15 17 51
	APRIL	17 9 27	17 15 47		APRIL	14 0 37	14 10 8
	MAY.	16 22 11	<b>16 22 4</b> 9		MAY .	513 13 21	14 0 8
	JUNE.	15 10 55	<b>15</b> 5 39		0	28 7 43	27 23 19
	JULY.	14 23 39	14 13 20		JUNE .	12 2 5	12 11 44
1	Aug	13 12 23	12 22 59	[	JULY.	11 14 49	11 21 24
	SEPT	12 1 7	11 11 25		Aug	10 3 33	10 6 0
	Oct	11 13 51	11 2 58	,	SEPT	8 16 17	8 14 29
	Nov.	10 2 35	9 21 7		Oct.	8 5 1	7 23 38
	DEC	9 15 19	9 16 37		Nov.	6 17 45	6 10 2
	0	24 9 41	24 7 41		DEC	6 6 29	5 21 54
726.	JAN.	8 4 3	8 11 49		l	1	
720. F.	FEB	6 16 47	7 5 8	729.	JAN	4 19 13	4 11 20
17 18 28	MAR.	8 5 31	8 19 34	В.	FEB	3 7 57	3 2 11
2. 20 20	APRIL	6 18 15	7 6 56	17 11 55	MAR	4 20 41	4 18 8
	MAY .	6 6 59	6 15 43		APRIL	3 9 25	3 10 34
	JUNE .	( 4 19 43	4 22 54		0	(18 3 47	18 7 17
	0	19 14 5	19 12 26		MAY .	2 22 9	3 2 43
	JULY.	4 8 27	4 5 34		JUNE.	1 10 58 30 23 37	1 17 45
	ΑυG	2 21 11	ſ 2 <b>1</b> 2 48		JULY.	30 12 21	$\begin{cases} 1 & 7 & 12 \\ 20 & 10 & 1 \end{cases}$
	SEPT	§ 1 9 55	31 21 40		Aug.	29 1 5	(30 19 1 29 5 38
	DEFT.	30 22 39	30 8 59		SEPT.	27 13 49	27 15 41
	Oct	30.11 23	29 23 15		Oct.	27 2 33	27 1 49
	Nov	29 0 7	28 16 14		Nov.	25 15 17	25 12 24
1	_ 0	(13 18 29	13 23 24		DEC.	25 4 1	24 23 31
	DEC	₹28 12 51	28 11 5				
727.	JAN	27 1 36	27 6 19	730.	JAN	23 16 46	28 11 17
E.	FEB.	25 14 20	26 0 19	Δ.	FEB.	22 5 30	21 23 45
18 0 17	MAR.	27 3 4	27 15 55	17 17 44	MAR.	23 18 14	28 13 7
	APRIL	25 <b>15 4</b> 8	26 4 34		0	(7 12 36	7 28 37
	MAY .	25 4 32	25 14 30		APRIL	22 6 58	22 3 30
	0	5 8 22 54	8 14 33		MAY .	21 19 42	21 18 38
	JUNE.	<b>23 17 16</b>	23 22 34		JUNE.	20 8 26	20 10 1
	JULY .	23 6 0	23 5 50		JULY.	19 21 10	20 1 2
	Aug	21 18 44	21 13 21		Avg	18 9 54	18 15 11
	SEPT	20 7 28	19 22 4		SEPT	16 22 38	17 4 17
	Oct	19 20 12	19 8 41		0	§ 1 17 0	1 3 20
	Nov	18 8 56	17 21 38		Oct	(16 11 22	16 16 28
1	Drag .	3 3 18	3 12 21		Nov.	15 0 6	15 4 2
	Dec	(17 21 40	17 12 54		DEC	14 12 50	14 15 9
	-		II				

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. ) Full Ecl.)
A.D. 731. g.	<b>T</b>	d. h. m.	d. h. m.	A.D. 734. c.	Т	d. h. m.	d. h. m.
March.	JAN	13 1 35	13 1 52	•	JAN	9 16 45	
d. h. m.	FEB	11 14 19	11 12 16	March.	0	24 11 7	24 4 33   8 18 54
17 23 32	MAR	$\begin{cases} 13 & 3 & 3 \\ 0.7 & 0.7 & 0.7 \end{cases}$	12 22 38	d. h. m.	FEB.	8 5 29	1
	. 0	27 21 25	28 11 11	17 16 59	MAR	9 18 13	10 6 34
	APRIL	11 15 47	11 9 30		APRIL	8 6 57	8 15 43
	MAY.	11 4 31	10 21 29		MAY.	7 19 41	7 23 11
	JUNE.	9 17 15	9 10 56		JUNE.	6 8 25	6 5 55
1	July.	9 5 59	9 1 52		JULY.	$\int 5219$	5 13 1
1	Aug	7 18 43	7 17 47		0	20 15 31	20 21 24
	SEPT	6 7 27	6 9 56	}	Aug	4 9 53	3 21 35
	0	21 1 49	20 14 13		SEPT	2 22 37	2 8 36
	Oct	5 20 11	6 1 36		Oct	2 11 21	1 22 42
}	Nov	4 8 55	4 16 15	,	Nov.	r 1 0 5	(31 15 43
1	DEC	3 21 39	4 5 36		1400	30 12 49	30 10 48
					DEC	30 1 33	30 6 22
	T	2 10 23	2 17 36				
732.	JAN	31 23 7		ll.	0	∫13 19 55	13 17 36
F.E.	FEB		1 4 13	735.	JAN	28 14 17	29 0 45
		(1 11 51	1 13 42	В.	FEB	27 3 1	27 16 37
17 5 21	MAR.	181 0 85	30 22 28	17 22 48	MAR	28 15 45	29 5 25
	APRIL	1	29 7 16		APRIL	27 4 29	27 15 19
1	MAY .		28 17 1		MAY .	26 17 13	26 23 10
1	JUNE .		27 4 33		JUNE .	25 5 57	25 5 58
1	JULY .		26 18 21	1	0	(10 0 19	9 23 27
	Aug.		25 10 19	1	JULY.	24 18 41	$24\ 12\ 52$
ł	SEPT.		24 8 44		Aug.		22 20 53
	Oct.		1		SEPT.		21 6 59
1			22 14 32		Oct.	. 21 8 53	20 19 50
1	Nov.		1	11	Nov.	·	19 11 32
1	DEC.	. 21 15 11	42 0 00		DEC.		19 5 32
733.	JAN.	. 20 7 56	20 19 3	:			
p.	0	(4 2 18		736.	JAN.	. 17 23 6	18 0 40
	FEB.	. 18 20 40		11 . ~	FEB.		16 19 19
17 11 1/	1	200 0 0	·	11	MAR.	. 17 0 34	17 12 8
17 11 10	APRI	10.00		11	APRII	L 15 13 18	16 2 11
	1			. 11	MAY		15 13 25
	MAY			11	June		13 22 21
	JUNE			11	July		1
	July	1.3		· 11	Aug.		
	0	102		. 11	SEPT.		
	Aug.		1 14 12 2	13	Oct.	0 45 40	
	Sept.	1		. 11	Nov.	0.00	
	Oct.	. 13 2 35		11		23 0 4	
	Nov	. 11 15 10		. 11	Dro		
	DEC.	. 11 4	0 11 11 1	1	Dro.	. 7 19 10	,
	l	I	1	II.	1	1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon (O Full Ecl.)
A.D. 737.		d. h. m.	d. h. m.	A.D. 740.		d. h. m.	d. h. m.
F.	JAN	6 7 55	6 1 24	C.B.	JAN	3 23 5	4 1 2
d. h. m.	FEB	4 20 39	4 18 55	d. $h$ . $m$ .	FEB	2 11 49	2 11 25
17 10 25	MAR	6 9 23	6 12 44	17 3 52	MAR	(3 0 33	2 21 81
	APRIL	4 22 7	5 5 42		0	17 18 55	18 8 10
	MAY .	( 4 10 51	4 20 50		APRIL	1 13 17	11 746
	0	19 5 13	18 22 33			(121	(30 18 51
	JUNE.	2 23 35	3 9 40		MAY .	30 14 45	30 7 21
	JULY.	2 12 19	2 20 20		JUNE .	29 3 29	28 21 31
		(1 1 3	1 5 33		JULY .	28 16 13	28 13 5
	Aug	30 13 47	30 14 12		Aug	27 4 57	27 5 24
	SEPT	29 2 31	28 23 8	1	0	(10 28 19	10 18 28
	Oct	28 15 15	28 9 1		SEPT	25 17 41	25 21 41
	0	(12 9 37	12 13 41		Ocr	25 6 25	25 13 10
1	Nov	27 3 59	26 20 12		Nov	23 19 9	24 3 25
	DEC	26 16 43	26 8 46		DEC	23 7 58	28 16 11
				741.	Jan	21 20 37	22 8 27
738.	Jan	25 5 27	24 22 43	141. A.	FEB.	20 9 21	20 18 17
E.	FEB.	23 18 11	23 13 53			7 3 43	
17 16 14	MAR.	25 6 55	25 5 54	17 9 41	O Mar	7	7 10 22
	APRIL	23 19 39	28 22 5	17 9 41	APRIL	20 10 49	21 22 8 20 6 36
	0	(8141	8 14 40		MAY .	19 28 38	
	MAY .	23 8 23	23 13 41		JUNE .	18 12 17	19 15 84 18 1 58
	JUNE .	21 21 7	22 4 1		JULY.	18 1 1	17 14 38
	JULY.	21 9 51	21 16 49		Aug.	(16 18 45	16 5 82
	Avg	19 22 35	20 4 12		0	81 8 7	81 5 49
	SEPT	18 11 19	18 14 43		SEPT.	15 2 29	14 22 81
	Oct	18 0 3	18 1 1		Oct	14 15 18	14 16 40
	0	( 1 18 25	1 13 2		Nov.	18 8 57	18 10 15
	Nov	16 12 47	16 11 30		DEC	12 16 41	18 2 41
	DEC	16 1 31	15 22 22				
				742. G.	JAN	11 5 26	11 17 2
739.	JAN	14 14 15	14 9 41	u.	FEB	9 18 10	10 5 1
D.	FEB	13 2 59	12 21 32	15 15 00	. 0	24 12 82	24 10 28
17 22 3	MAR.	14 15 44	14 10 8	17 15 30	MAR.	11 6 54	11 14 48
	APRIL	13 4 28	12 23 43		APRIL	9 19 88	9 22 56
	MAY .	12 17 12	12 14 18		MAY .	9 8 22	9 6 15
	June.	11 5 56	11 5 33		JUNE .	7 21 6	7 18 45
	JULY.	10 18 40	10 20 54		JULY.	7 9 50	6 22 28
	Aug	9 7 24	9 11 44	- 1	AUG	5 22 84	5 9 28
	SEPT.	7 20 8	8 1 38	Į	0	20 16 56	20 21 20
	Oct	7 8 52	7 14 34	1	SEPT	4 11 18	3 28 21
	Nov	5 21 36	6 2 40	ļ	Ocr.	4 0 2	8 16 1
	DEC	5 10 20	5 14 7	.	Nov	2 12 46	2 10 41
					DEC	$\begin{cases} 2 & 1 & 80 \end{cases}$	2 5 55
	<u> </u>		- 11		l	(81 14 14	•••

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A D							
A.D. 743. F.		d. h. m.	d. h. m.	A.D. 746.	_	d. h. m.	d. h. m.
r.	JAN	l{ ''' l	1 0 8	March.	JAN	26 18 8	26 13 59
		(30 2 58	30 16 4	d. h. m.	FEB	25 6 52	25 7 33
March.	FEB	28 15 42		17 14 45	MAR	26 19 36	27 0 53
d. h. m. 17 21 18	M	S	1 5 5		APRIL	25 8 20	25 16 54
17 21 10	MAR	30 4 26	30 15 19		MAY .	24 21 4	25 6 55
	APRIL	28 17 10	28 23 25		0	8 15 26	8 6 28
	MAY .	28 5 54	28 6 18	1	June .	23 9 48	23 18 43
	JUNE .	26 18 38	26 13 2		JULY .	22 22 32	23 4 44
1	JULY.	26 7 22	25 20 46		Aug	21 11 16	21 13 45
	Aug.	24 20 6	24 6 31		SEPT.	20 0 0	19 22 41
1	SEPT.	23 8 50	22 19 7		Oct.	19 12 44	19 8 15
	OCT.	22 21 34	22 10 47		Nov.	18 1 28	17 18 51
		21 10 18	21 5 3		DEC.	17 14 12	17 6 41
	DEC.	20 23 2	21 0 34		DEG.	1. 14 12	1, 041
		( 4 17 24	4 16 37	747.	JAN	16 2 56	15 19 47
744	JAN.	19 11 47		Α.	FEB	14 15 41	14 10 7
744. E.D.		10 001		17 20 34	MAR	16 4 25	16 1 28
	FEB.			11	APRIL	(14 17 9	14 17 25
17 8 7	1 .		1	31	0	29 11 31	29 14 58
	APRII	1		11	MAY .	1 -	14 9 16
	MAY	1		11	JUNE .		13 0 19
	JUNE	13	1	11	JULY .	1	12 14 2
	0	(29 21 4	- 1	11	Aug.		11 2 19
1	Junx	1		W.	1 -		9 13 29
Ì	Aug.	1		11	SEPT.	8 21 33	1
	SEPT.	1	·	11	Ocr.		1 1 1 1
	Out.	. 11 62	-	9	Nov.	7 10 17	1 1
	Nov.	. 9 19	7 9 7 2	8	DEC.	. 6 23 1	0 21 22
	DEC.	. 9 75	9 0 2	8			1
	10	24 2 1	8 24 82	0 748.	JAN.	. 5 11 46	5 8 25
745.	JAN.	7 20 8	6 7 19	2 G.F.	FEB.	. 4 0 30	1 ;
C.	FEB.		0 6 13 5		3 MAR.	. 4 13 14	4 740
	1			2	APRI	L   3 1 5	8 2 20 26
17 8 5			8 6 23	7	0	17 20 2	0 18 7 15
	APR	-			MAY	. 2 14 4	2 2 10 16
	MAY	4 4 40		11		(1 3 2	6 1 1 6
	Juni	1.2		. 13	Јимв	1 30 16 1	10 30 16 30
	, 0			! !	JULY	. 30 4 5	4 30 7 49
	Jun	1	0 4 5	11	Aug	ء ا	8 28 22 29
	Aug	l l	15 01 01		SEPT		
	SEPT	$\begin{cases} 1 & 2 \end{cases}$		<b>53</b>	0		44 11 11 21
		(80 19	12 80 6	11	Oct.	13 00 40	6 27 0 57
	Oct.		56 29 17	- 11	Nov		50 25 12 53
	Nov	1	10	12	DEC	24 22	
	0		2 18 21	0	Date		
1	Dzo	1 28 5	24 27 21	15			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ect.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.
A.D. 749.		d. h. m.	d. h. m.	A.D. 752.		d. h. m.	d. h. m.
March.	JAN	23 9 18	23 10 40	B.A.	JAN	21 0 28	21 12 32
d. $h$ . $m$ .	FEB	21 22 2	21 20 38	March.	0	( 4 18 50	4 12 53
17 8 11	MAR.	23 10 46	23 6 30	d. $h.$ $m.$	FEB	19 13 12	20 2 59
	0	5758	7 18 30	17 1 30	MAR	20 1 56	20 14 28
	APRIL	(21 23 30	21 16 48		APRIL	18 14 40	18 23 25
	MAY.	21 12 14	21 4 19		MAY .	18 3 24	18 6 42
	JUNE.	20 0 58	19 17 30		JUNE .	16 16 8	16 13 20
	JULY.	19 13 42	19 8 25	1	JULY.	(16 4 52	15 20 27
	Aug	18 2 26	18 0 37		0	30 23 14	31 4 18
}	SEPT	16 15 10	\$16 17 16		Aug	14 17 36	14 5 7
	0	$\int 1 932$	₹30 22 28		SEPT	13 6 20	12 16 18
	Ост	(16 3 54	16 9 31		Oct	12 19 4	12 6 32
	Nov	14 16 38	15 0 41		Nov	11 7 48	10 23 39
	DEC	14 5 22	14 14 22		Dec	10 20 32	10 18 44
750.	JAN	12 18 7	13 2 24	753.	JAN	(9 9 17	9 14 16
D.	FEB	11 6 51	11 12 49	G.	0	24 3 39	24 2 20
17 14 0	MAR	12 19 35	12 21 55		FEB	7 22 1	8 8 33
1	APRIL	11 8 19	11 6 14	17 7 27	MAR	9 10 45	10 0 16
1	MAY.	10 21 3	10 14 37		APRIL	7 23 29	8 12 55
1	JUNE.	9 9 47	9 0 2		MAY .	7 12 13	7 22 45
1	JULY.	8 22 31	8 11 23		JUNE .	6 0 57	6 6 84
	Aug	7 11 15	7 1 13		JULY .	( 5 13 41	5 13 28
	SEPT	5 23 59	5 17 28		0	20 8 3	20 6 2
	Ост	5 12 43	5 11 11		Aug	4 2 25	3 20 31
İ	Nov	4 1 27	4 5 27		SEPT	2 15 9	2 4 48
	DEc	3 14 11	3 22 52		0	(2 8 58	1 15 9
					Oct	81 16 37	81 4 7
751.	JAN	2 2 55	2 14 25		Nov	80 5 21	29 19 47
C.	E-m	(31 15 89			DEC	29 18 5	29 18 85
	FEB	15 10 1	1 3 33		_		
			15 5 52	754. F.	JAN	28 6 50	28 8 25
17 19 49	MAR	{ 2 4 24 { 31 17 8	2 14 17		FEB	26 19 34	27 2 46
	APRIL	30 5 52	31 23 0 30 6 28	17 13 16	MAR.	28 8 18	28 19 19
	MAY.	29 18 36	30 6 28   29 13 36		APRIL	26 21 2	27 9 17
	JUNE .	28 7 20	27 21 30		MAY .	26 9 46	26 20 82
	JULY .	27 20 4			June .	24 22 30	25 5 38
	0	(11 14 26	27 7 13 11 20 10		JULY .	24 11 14	24 18 81
	Aug.	26 8 48	25 19 40		Aug	22 23 58	22 21 16
	SEPT.	24 21 32	- · · · · · · · · · · · · · · · · · · ·		SEPT	21 12 42	21 5 49
	Oct.	24 10 16	24 11 5 24 5 2		Oct.	21 1 26	20 15 50
	Nov.	22 23 0	23 0 18	I	Nov.	19 14 10	19 8 47
	DEC	22 11 44	22 19 19	1	0	{ 4 8 32	4 17 58
			10 13		DEC.	(19 2 54	18 17 44
		· · · · ·					

Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 755. E. March. d. h. m. 17 19 4	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV O DEC	d. h. m. 17 15 38 16 4 22 17 17 6 16 5 50 (15 18 34 (30 12 56 14 7 18 13 20 2 12 8 46 10 21 30 10 10 14 (8 22 58 (23 17 20 8 11 42	d. h. m. 17 9 31 16 2 32 17 19 53 16 12 31 16 3 32 30 5 49 14 16 30 14 3 29 12 13 7 10 22 14 10 7 38 8 17 49 23 21 40 8 5 3	A.D. 758. A. March. d. h. m. 17 12 31	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT NOV DEC	d. h. m.  14 6 48 12 19 32 (14 8 16) 29 2 38 12 21 0 12 9 44 10 22 28 10 11 12 8 23 56 (7 12 40) (22 7 2 7 1 24 5 14 8 5 2 52	d. h. m.  14 9 53 12 19 57 14 5 34 29 15 29 12 15 18 12 1 52 10 14 1 10 4 4 8 19 48 7 12 31 21 21 35 7 5 20 5 21 24
756. p.c. 17 0 58	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT O NOV DEC JAN FEB MAR APRIL O MAY . JUNE . JUNE . JUNE . JUNE . OCT	7 0 27 5 13 11 6 1 55 4 14 39 { 4 3 23 { 18 21 45 2 16 7 { 2 4 51 31 17 35 80 6 19 28 19 8 28 7 47 { 12 2 3 26 20 8 26 9 18 24 21 56 28 10 40 24 23 2 28 12 1 { 8 6 8 28 0 5 21 18 8 21 2 2 19 15	6 17 24 5 6 54 5 21 28 4 12 58 4 4 4 42 18 22 11 2 20 10 2 10 41 31 28 54 30 11 51 32 22 57 7 28 9 42 11 20 58 12 20 27 26 7 20 24 18 20 26 20 27 26 7 20 27 26 7 20 28 8 15 7 5 22 20 51 9 21 11 58 8 8 15 7 5 22 20 51 9 21 11 58 8 21 8 30 7 19 18 47 1 18 9 17 5 17 22 48	760. F.E. 17 0 9	JAN FEB MAR O APRIL MAY . JUNE . JULY . OCT . NOV DEC. JAN. FEB.	3 15 87 2 4 21 3 17 5 18 11 27 2 5 49 1 18 33 31 7 17 29 20 1 29 8 45 27 21 29 11 15 51 26 10 13 25 22 57 24 11 41 24 0 25 21 14 3 20 3 21 19 16 3 18 4 44 17 17 3 16 6 1 31 0 3 14 19 14 7 4	4 0 58 2 12 6 3 21 40 18 17 29 2 6 5 1 14 7 30 22 43 29 8 54 28 21 26 27 12 33 11 13 57 26 5 50 26 0 14 24 18 25 24 11 8 23 1 31 21 13 20 6 17 47 7 21 22 51 20 6 41 5 19 13 43 9 17 21 2 8 17 5 41 7 15 16 43 19 31 5 7 1 14 6 43 5 13 23 37

Mean Vernal Equinox,	Month.	Mean New Moon (○ Full Rel.)	True New Moon. (O Fall Rel.)	Monn Vornal Equinal	Month	Moon Now Moon ( Fall Ect	True New M. res
A.D. 761.		d. h. m.	il. A, m.	A.D. 784	THE PERSONAL PROPERTY.	d 4 m	d. h. m.
p,	JAN.	10 21 58	11 # 16	A.41.	Jan	. H 18 H	<b>科 5 35</b>
March.	Fan.	9 10 42	10 0 9	March.	YEB .	7 1 59	6 21 49
17 5 57	MAR.	10 28 26	11 18 9	16 23 23	M.s.	7 14 56	7 14 68
	Armit.	9 12 10	0 23 4	į	Arnie	6 8 3	6 7 47
	MAY .	9 0 54	9 6 60		MAT .	5 16 4	5 221 196
	JUMM .	7 18 88	7 18 45		Jen.	(4 4 44	4 1/1 (20)
	JULY .	7 9 24	8 20 20			118 23 10	10 10 10
	Atta	5 15 6	5 4 14		Just .	8 17 82	4 1 12
	Burt	4 8 56	8 14 14			1 2 6 16	2 12 9
	Ocr. ,	8 16 84	2 12 tate		Atto	(at to o	at 21 4o
	Nov.	3 P 18	1 18 40		Harr.	(30) 7 44	(B) 7 4
	n	1 1 1 3	1 18 9		Ocy, .	20 20 20	Zi 10 50
	Dac.	(B1 0 46	81 H 82		Nov	20 0 12	24 3 45
					Dur.	27 21 56	27 15 28
	0	(15 1 9	15 1 294				_
769.	JAM	580 TO 81	(M) H (M)	788.	Jam.	26 10 41	26 4 12
a,	Pas	784 B 18	部级路	٧,	Fam.	M 23 25	24 17 57
17 11 46	MAR.	29 20 59	80 10 42	17 6 12	Man	26 12 0	(P) 14 41
	APRIL.	28 9 48	2H 21 NO		Aran	25 0 58	# 0 A
	MAY .	27 22 27	SH H HE		( )	0 10 15	0 21 53
	Jumm .	SS 11 11	26 18 46		Mar	21 10 87	24 15 4A
	0	111 6 88	11 1 20		Just .	21 2 21	28 ( 5)
	JULY.	(35 38 55	26 20 4a		July .	24 15 5	21 31 10
	Atla	31 13 80	34 4 34		Ava	21 5 49	21 9 43
	Ввет	28 1 28	28 18 45		Harr	19 16 23	10 21 20
	Ocr	22 14 7	202 1 204		()-v	19 8 17	19 9 27
	Nov	81 8 91	20 15 49		Nov.	17 18 1	17 19 81
	DEC.	20 15 85	20 H B4		Dae.	17 6 45	17 6 21
	_		4 4 9 4 4		<b>1</b> 00 € 100		** 0 24
768.	JAN.	4 9 57 19 4 19	4 17 12				
3.	Fas.	17 17 B	19 2 M	700.	Jan	15 19 29	15 17 12
17 17 85	Man.	19 5 47	17 21 391		Fun	14 # 18	14 4 #
A. A. O.	APRIL		19 14 67	17 11 1	Man.	15 20 57	15 15 27
	MAY .		18 6 8	4	Arail	14 9 41	14 8 87
	Juna.	17 7 15	17 19 48		(3)	(30 4 3	20 14 45
	O .	80 14 21	16 4 62		MAY .	19 22 25	18 16 54
	July.	4	80 4 9		Jump .	12 11 9	13 7 84
	Ace	15 8 48			July .	11 23 50	11 28 0
	Sart.	18 21 27 12 10 11			Ara		10 14 80
	Cor	. 1	12 5 25		Herr.	9 1 21	9 8 81
		10 11 80	11 14 50	9	Oct.	( # 14 A	a 20 12
		(10 0 23	10 1 54		. O	(28 8 27	32 10 30
		4 - 1	9 14 4n 25 6 24		Nov Dec	7 2 49	7 9 80
	<b>₩</b>		200 PA HAR ()	2	Elitabeth 1	6 15 mg	6 21 45

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			DICOSALEM C	MAID TIME.			
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New · Moon. ) Full Ecl.)
Vernal	JAN. FEB. MAR. APRIL O MAY. JUNE  JULY. AUG. SEPT. O OCT. NOV. DEC.  JAN. FEB. APRIL MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	Mean New Moon. (O Full Ecl.) (  d. h. m.  5 4 18 3 17 2 5 5 46 (3 18 30 (18 12 52 3 7 14 1 19 58 (1 8 42 2 10 10 27 22 54 (12 17 16 27 11 38 26 0 22 25 13 6  24 1 51 22 14 35 23 3 19 21 16 3 21 4 47 19 17 31 19 6 15 17 18 59 16 7 48 15 20 27 14 9 11 18 21 56  12 10 88 (10 28 2 25 17 4 12 12 11 0 5	True New Moon.  Full Ecl.)  d. h. m.  5 9 1  3 19 20  5 4 55  3 14 14  19 1 42  3 0 2  1 11 9  1 0 8  30 15 6  29 7 34  28 0 43  12 6 53  27 17 32  26 9 11  25 23 5  24 11 6  22 21 16  23 6 0  21 13 55  20 21 56  19 7 4  18 18 18  17 8 11  16 0 35  7 14 13 26  14 7 11  19 12 22 52  8 11 11 55  5 25 13 32  7 12 22 25  1 11 6 51	Mean Vernal Equinox.  A.D. 770. G.  March. d. h. m. 17 10 16  771. F.  17 16 5	JAN  FEB. O  MAR  APRIL  MAY .  JUNE .  JULY .  OCT  NOV  DEC  JAN  OFEB  MAR  APRIL  MAY .  JUNE .  JULY .  O  LOCT  NOV  DEC  APRIL  MAY .  APRIL  MAY .  APRIL  MAY .  APRIL  MAY .  APRIL  MAY .	Moon. (O Full Ecl.)  d. h. m. { 1 19 28 { 31 8 12 15 2 34	Moon. Full Ecl.)  d. h. m.  2
17 4 20		11 0 5. 10 18 8 9 2 1 8 15 7 8 4 21 22 5 16 8 5 5 1 8 17 5	1 11 6 51 5 10 14 2 9 8 20 57 8 8 4 45 17 6 14 31 9 22 3 42 11 5 3 3 4 18 39 9 8 12 44	7 7 6 6 L L 2 2 B B 9 9 8 8	l l	. 7 4 45 5 17 29 . 5 6 18 . 3 18 57 . 2 7 41 { 1 20 25 . 31 9 5	7 16 18 6 8 35 5 12 54 3 21 8 2 5 18 1 14 18 31 0 30 3 29 12 28 5 15 2 25

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 773.		d. h. m.	d. h. m.	A.D. 776.		d. h. m.	d. h. m.
c.	JAN	27 23 21	27 17 33	G.F.	JAN	25 14 32	25 18 40
March.	FEB	26 12 6	26 10 3	March. $d. h. m.$	FEB	24 3 16	24 4 23
d. h. m. 17 3 43	MAR.	28 0 50	28 2 53	16 21 9	MAR	24 16 0	24 13 32
	APRIL	26 13 34	26 19 13		0	(8 10 22	8 22 39
	MAY .	26 2 18	26 10 12		APRIL	23 4 44	22 22 45
	0	( 9 20 40	9 13 6		MAY .	22 17 28	22 8 54
	JUNE.	24 15 2	24 23 20		June .	21 6 12	20 20 45
	JULY.	24 3 46	24 10 42		JULY.	20 18 56	20 10 43
	Aug	22 16 30	22 20 50		Aug	19 7 40	19 2 37
	SEPT	21 5 14	21 6 27		SEPT	17 20 24	17 19 46
	Oct	20 17 58	20 16 16		0	( 2 14 46	<b>2</b> 5 56
	Nov	19 6 42	19 2 42		Ocr	<b>17</b> 9 8	17 13 7
	0	(4 1 4	4 5 43		Nov	15 21 52	16 5 42
	DEC	(18 19 26	18 13 56		DEC	15 10 36	15 20 41
774.	Jan	17 8 10	17 1 59	777.	Jan	13 23 20	14 9 40
В.	FEB	15 20 54	15 14 57	E.	FEB	12 12 4	12 20 38
17 9 32	MAR	17 9 38	17 <b>4</b> 55	17 2 58	MAR	514 0 48	14 5 51
	APRIL	15 22 22	15 19 46		0	28 19 10	29 0 29
	MAY .	(15 11 6	15 11 14		APRIL	12 13 32	12 13 58
	0	30 5 28	30 5 38		MAY .	12 2 16	11 21 82
	JUNE.	13 23 50	14 2 38		JUNE.	10 15 0	10 5 51
	JULY.	13 12 34	13 17 23		JULY.	10 3 44	9 15 52
	Aυσ	12 1 18	12 7 2		A.UG	8 16 28	8 4 24
	SEPT	10 14 2	10 19 34		SEPT	7 5 12	6 19 41
	Oct	10 2 46	10 7 15		0	21 28 34	21 22 18
	Nov	§ 8 15 30	8 18 27		Oct	6 17 56	6 18 16
	0	23 9 52	23 4 51		Nov	5 6 40	588
	DEC	8 4 14	8 5 24		DEC	4 19 24	5 2 85
775.	JAN	6 16 59	6 16 13	778. D.	JAN	8 8 9	8 19 80
A.	FEB.	5 5 43	5 2 55		FEB	1 20 58	2 9 54
17 15 21	MAR.	6 18 27	6 13 44	17 8 47	MAR	8 9 87	8 21 82
	APRIL	5 7 11	5 1 7		. 0	18 8 59	18 1 5
	MAY .	( 4 19 55	4 13 34		APRIL	1 22 21	2 6 47
	0	19 14 17	19 22 32		MAY .	$\begin{cases} 1 & 11 & 5 \\ 20 & 22 & 40 \end{cases}$	1 14 21
	JUNE.	3 8 39	3 3 25			180 28 49	80 21 10
1	JULY.	2 21 23	2 18 27		JUNE.	29 12 88	29 4 22
1		(1107	1 10 12		JULY.	29 1 17 27 14 1	28 18 1
	AUG	30 22 51	31 1 56		Aug	27 14 1 (11 8 23	27 0 8 11 18 0
	SEPT	29 11 35	29 17 3		O Sept	26 2 45	25 14 17
	Oct	29 0 19	29 7 10		Oct	25 15 29	25 7 21
	Nov	27 13 3	27 20 9		Nov.	25 15 29	25 7 21
	DEC	27 1 47	27 7 57		DEC.	28 16 57	28 21 58
	<u> </u>					20 10 01	70 2T 00

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Mean Vernal Equinox.	Month.	Mean New Moon. O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 779.		d. h. m.	d. h. m.	A.D. 782.		d. h. m.	d. h. m.
Mr. wals	JAN	22 5 42	22 16 18	F.	0	(4 2 30	4 14 7
March, $d$ , $h$ , $m$ ,	FEB	20 18 26	21 8 6		JAN	18 20 52	18 13 52
17 14 86	MAR.	22 7 10	22 20 48	March.	FEB	17 9 36	17 5 34
	APRIL	20 19 54	21 6 41	d. h. m. 17 8 2	MAR.	18 22 20	18 22 3
	MAY .	20 8 38	20 14 27	1, 0 2	APRIL	17 11 4	- 1
	JUNE .	18 21 22	18 21 12		MAY.	16 23 48	17 14 33   17 6 13
	JULY .	18 10 6	18 4 2				
	Aug.	16 22 50	16 12 0		JUNE.	(15 12 32	15 20 21
	SEPT.	15 11 84	14 22 7		O T	(30 6 54	29 20 53
	Oct.	15 11 54			JULY.	15 1 16	15 8 44
	i		14 11 0		Aug	13 14 0	13 19 38
	Nov.	18 18 2	13 2 52		SEPT	12 2 44	12 5 40
	DEC.,	18 1 46	12 21 5		Oct	11 15 28	11 15 34
1			l l		Nov	10 4 12	10 1 49
780.	JAN	(11 14 80	11 16 25		DEC	9 16 56	9 12 41
B.A.	0	26 8 52	26 10 13				ľ
	FEB	10 8 14	10 11 13	783.	JAN	8 5 40	8 0 14
16 20 25	MAR.	10 15 58	11 4 2	E.	FEB	6 18 24	6 12 30
	APRIL	9 4 42	9 18 0	17 13 51	MAR.	8 7 8	8 1 39
	MAY .	8 17 26	9 5 4		APRIL	6 19 52	6 15 47
	JUNE .	7 6 10	7 13 49		MAY .	6 8 36	6 6 46
	July.	( 6 18 54	6 21 13		JUNE .	4 21 20	4 22 12
	0	21 18 16	21 8 0		JULY.	4 10 4	4 13 25
1	Aug.	5 7 88	5 4 24		Aug.	2 22 48	3 3 49
	SEPT.	8 20 22	8 12 24		SEPT.	1 11 32	1 17 12
	Oct.	8 9 6	2 22 2		DEF1	(1 0 16	1 5 33
		1 21 50	1 9 53		Oct	30 13 0	30 17 12
1	Nov.	( 1 10 84	1 0 13		Nov	29 1 44	29 4 25
1	DEC	80 28 19	80 16 45		-	28 14 28	28 15 19
		(80 28 18	50 10 49		DEC	20 14 20	20 10 10
		(14 17 41	15 2 1	784.	Jan	27 3 13	27 1 56
781.	JAN.	29 12 8	29 10 41	D.C.	FEB	25 15 57	25 12 24
o.	FEB.	28 0 47	28 4 50	16 19 40	MAR.	26 4 41	25 23 9
17 2 14	1	29 18 81	29 21 57		APRIL	24 17 25	24 10 44
	APRIL	28 2 15	28 13 4		0	( 9 11 47	9 22 9
1	MAY.	27 14 59	28 1 40		MAY	$\{24 \ 6 \ 9\}$	23 23 40
	June .		26 12 0		June	20 40 40	22 14 3
		(10 22 5			JULY	1	22 5 34
1	July .	13		1	Aug.		20 21 36
	Avg.		1		SEPT.		19 13 22
	SEPT.				Ост.	. 18 21 49	19 4 19
	10	00 0 90			0	( 2 16 11	
					Nov.	12	1
	Nov.	00 0 5		-	DEC.	. 16 23 17	
	DEC.	. 20 8 7	10 20 21		220.		
1	Ī	1	1	11	1	1	

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Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 785.		d. h. m.	d. h. m.	A.D. 788.	_	d. h. m.	d. h. m.
В.	JAN	15 12 1	15 17 51	F.E.	JAN	13 3 11	13 11 22
d. h. m.	FEB	14 0 45	14 3 53	March.	FEB	\[ \frac{11}{5} \] 15 55	12 4 80
17 1 29	MAR	15 13 29	15 13 3	d. h. m.	0	26 10 17	26 5 15
	APRIL	(14 2 13	13 21 52	16 18 55	MAR	12 4 39	12 18 42
	0	28 20 35	29 8 46		APRIL	10 17 23	11 5 50
	MAY.	13 14 57	13 7 13		MAY .	10 6 7	10 14 29
	JUNE.	12 3 41	11 17 59		JUNE .	8 18 51	8 21 86
	JULY.	11 16 25	11 6 49		July.	8 7 85	8 4 17
	Aug	10 5 9	9 21 51		Aug	6 20 19	6 11 87
	SEPT	8 17 53	8 14 39		0	21 14 41	21 18 21
	Oct	(8 6 37	8 8 18		SEPT	5 9 8	4 20 40
	0	23 0 59	22 15 25		Ocr	4 21 47	4 8 12
	Nov	6 19 21	7 1 36		Nov.	3 10 31	2 22 89
	DEC	6 8 5	6 17 39		DEC	2 28 15	2 15 47
	JAN	4 20 50	5 7 46	789.	TAN	( 1 11 59	1 10 40
786.		3 9 34	3 19 41	D.	JAN	(81 0 48	81 5 <b>4</b> 8
A.	FEB	4 22 18	5 5 35		FEB. O	14 19 5	14 19 29
17 7 18		3 11 2	3 13 56	17 0 44	Man	(1 13 28	1 23 40
	APRIL MAY.	2 23 46	2 21 28	11 0 44	MAR.	81 2 12	81 15 8
	ì .	1 12 30	(1 5 12		APRIL	29 14 56	80 8 80
	JUNE .	(1 1 14	30 14 9		MAY .	29 3 40	29 18 17
	July .	. 1)	30 1 19		June .	27 16 24	27 21 19
	A ===	\\\ 29 \ 2 \ 42	28 15 16		JULY .	27 5 8	27 4 85
	AUG.		27 7 56		0	(10 28 80	10 19 8
	1 1	1	27 2 28		Aug	25 17 52	25 12 14
	Oct.		25 21 28		SEPT	24 6 86	28 21 6
	Nov.	1			Ocr	28 19 20	28 7 55
	Dec.	. 25 5 38	20 10 20		Nov.	22 8 4	21 21 0
	_				DEC	21 20 48	21 12 24
787.	JAN.	. 23 18 23					
G.		. 22 7 7	1	790.	JAN		20 5 84
	,,,	9 1 29	1	c.	FEB	18 22 17	18 28 88
17 13 7			1	17 6 83		1	20 17 9
	APRIL				APRIL		19 9 15
	MAY	1			MAY		18 28 6
	JUNE				JUNE.	1	17 10 36
	JULY	1			JULY	1	16 20 14
	Aug.	1			Aug.	. 15 2 41	15 4 52
	0	2 5 5			SEPT.		
1	SEPT.				Ocr.	. 13 4 9	
		. 16 12 59		11	Nov.	. 11 16 58	11 9 16
	Nov.	1		ł I	DEC.	. 511 5 87	7 10 21 14
	DEC.	. 14 14 2	7   14 16 14	:	0	25 28 59	26 10 51
	<u> </u>			11			1

	. 1 dr. bedraue symptom	·	a various and an experience of the contract of				
Moan Vernal Equinox,	Month.	Mean New Moon.	True New Moon. ) Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 791.	s Hann An Albert Michigan v	d. h. m.	d. h. m.	A.D. 794.		d. h. m.	d. h. m.
n. :	JAN	9 18 21	9 10 42	E	JAN	6 9 31	6 16 50
March.	Fun.	8 7 5	8 1 32	March.	FEB	4 22 15	5 3 20
$\frac{d}{17} \frac{h}{12} \frac{m}{22}$	MAR.	9 19 49	9 17 25	d. h. m.	MAR.	6 10 59	6 12 41
11 12 22	_		- 11	17 5 48			
	Arku,	8 8 88	8 9 47		APRIL	4 23 43	4 21 20
	MAY .	7 21 17	8 1 49		MAY.	4 12 27	4 6 6
	JUNE.	(610 1	6 16 46		June.	8 1 11	2 15 52
	()	21 4 28	20 20 28		July.	2 13 55	2 3 30
	Juny .	5 22 45	6 6 10			(1 2 39	31 17 28
	Ava.	4 11 20	4 17 57		Aug	80 15 28	30 9 35
	SEPT.	8 0 18	8 4 97		SEPT	29 4 7	29 3 9
1	4					(13 22 29	18 14 25
	Ocr.	2 12 57			0	12	
1	Nov.	5 1 1 41	1 1 0		Oct	1 1	
i		£80 14 25	80 11 88		Nov	27 5 35	27 14 1
	0	515 8 47	15 18 45		DEC	26 18 19	27 5 15
	DEC	\$30 B 9	29 22 48				
				795.	JAN	25 7 4	25 18 17
702.	JAN	28 15 54	28 10 81	υ.	FEB	23 19 48	$24 \ 5 \ 2$
A.11.	FRR	27 4 88	26 22 56	17 11 87	MAR	25 8 32	25 13 54
16 18 11	MAR.		27 12 16		0	9 2 54	9 7 24
	Armi	1	26 2 86		APRIL	128 21 16	28 21 35
	Max		25 17 42		MAY .	28 10 0	28 4 57
	i	( 1) 18 12	9 18 5		June .	21 22 44	21 13 3
	()	12	24 9 5		July .	21 11 28	20 22 58
λ	JUNE		_		1	20 0 12	19 11 32
	Juny				A.ua.	18 12 56	18 3 0
1	Ana.	-	22 14 17		SEPT		1
1	BEPT.	- 1	21 8 26	H	0	8 7 18	
3	Oct.	. 20 10 80	20 15 41		Oct.	18 1 40	17 20 52
	Nov.	. 18 28 14	19 8 17		Nov.	16 14 24	16 15 58
	1 0	( 8 17 86	8 12 50		DEC.	16 8 8	16 10 44
VI	DEC.	. [18 11 58	18 14 24			1	4= 0.40
*		1		796.	JAN.	14 15 58	15 3 46
793.	JAN.	. 17 0 48	17 1 4	C.B.	FEB.	18 4 37	18 18 7
<b>3</b> °.	Fun.	. 15 18 27	15 11 28	16 17 26	MAR.	.   ∫ 18-17-21	1
17 0	D MAR.	. 17 2 11	16 21 89	- []	0	128 11 48	1
	Aran		15 8 28		APRIL	12 6 5	12 14 34
	May	, (15 8 8)	1	11	MAY	. 11 18 49	11 21 54
	{	21 22 1		11	JUNE	. 10 7 88	10 4 36
	() ************************************	1		. 11	July	0.00.45	9 11 46
	Atting			H	Aug.	0.0.1	
	"J ELITA			11		( 0 01 4	
	A no.	1	1	11	SEPT.	- 13	7 21 21 1
,	Barr		1	. 11	0	1	
2	Our.	. 9 19 19	10 0 50	3	Ocr.	6 10 29	
	Nov.	. 888	8 15 80	3	Nov.		
	DEC.	7 20 47	7 8 4 50	3	DEC.	4 11 5	7 4 10 24
				I			1
,			· · · · · · · · · · · · · · · · · · ·	and the second second second second			

Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. () Full Ecl.)
A.D. 797.	,	d. h. m.	d. h. m.	A.D. 800.		d. h. m.	d. h. m.
A.	Jan	3 0 41	3 5 56	E.D.	0	<b>∫15</b> 10 13	$15\ 22\ 32$
March.	FEB	1 13 25	2 0 11	d. h. m.	JAN	30 4 35	29 22 4
d. h. m. 16 23 15	MAR.	3 2 9	3 15 50	W. 16. 116.	FEB	28 17 19	28 13 11
10 10 10	APRIL	1 14 53	2 4 25	16 16 41	MAR	29 6 3	29 5 7
		(1 3 37	1 14 9		APRIL	27 18 47	27 21 18
	MAY.	30 16 21	30 21 52		MAY .	27 7 81	27 12 44
1	JUNE .	29 5 5	29 4 40		June.	25 20 15	26 8 1
	JULY .	28 17 49	28 11 38		0	∫10 14 37	10 4 10
	Aug	27 6 33	26 19 48		July.	25 8 59	25 15 46
	SEPT	25 19 17	25 6 7	· ·	Aug	23 21 43	24 3 12
	Oct	25 8 1	24 19 10		SEPT	22 10 27	22 13 48
	Nov	23 20 45	23 11 2		Oct	21 23 11	22 0 11
	DEC	23, 9 29	28 5 7	,	Nov	20 11 55	20 10 48
					DEC	20 0 89	19 21 37
798.	Jan	21 22 14	22 0 13				
G.	0	5 16 36	5 18 54	801.	JAN	18 13 24	18 8 56
	FEB	20 10 58	20 18 44	c.	FEB	17 2 8	16 20 48
17 5 4	MAR	21 23 42	22 11 21	16 22 30	Mar	18 14 52	18 9 15
}	APRIL	20 12 26	21 1 12		APRIL	17 8 86	16 22 48
	MAY .	20 1 10	20 12 16		MAY .	16 16 20	16 18 21
	JUNE .	18 13 54	18 21 7		June .	15 5 4	15 4 86
	July.	18 2 38	18 4 44	1	July .	14 17 48	14 19 58
	0	§ 1 21 0	1 14 40		Aug	13 6 82	18 10 51
	Aug	16 15 22	16 12 14		SEPT	11 19 16	12 0 48
	SEPT.	15. 4 6	14 20 33		Oct	11 8 0	11 18 47
	Oct	14 16 50	14 6 28	'	Nov	9 20 44	10 1 54
1	Nov.	13 5 34	12 18 27		DEC	9 9 28	9 18 22
	DEC	12 18 18	12 8 40				
799.	JAN.	(11 7 2	11 0 51	802.	JAN	7 22 12	8 0 14
F.	0	26 1 24		в.	FEB.	6 10 56	6 10 81
ł	FEB	9 19 46	9 18 20	17 4 19	MAR.	7 23 40	7 20 82
17 10 53	MAR	11 8 30	11 12 4		APRIL	6 12 24	6 6 42
	APRIL	9 21 14	10 4 52		MAY.	6 1 8	5 17 47
	MAY .	9 9 58	9 19 51		0	20 19 80	21 5 27
	JUNE .	7 22 42	8 8 32		JUNE .	4 18 52	4 6 19
	JULY .	7 11 26			July .	4 2 36	8 20 82
	. 0	22 5 48	21 17 48		Aug	2 15 20	2 12 14
	Aug	6. 0 10	6 4 23			1144	1 4 89
	SEPT	4 12 54	4 13 6		SEPT	30 16 48	30 21 0
	Ocr	4 1 38	3 22 11		Ocr	80 5 82	80 12 82
	Nov	2 14 22	2 8 12		0	ſ18 28 54	18 12 11
	DEC.	$\int 2.36$	1 19 28		Nov	28 18 16	29 2 45
	LEG.	: \ \ 31,15 50	31 8 6		DEC.	28 7 0	28 15 28

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 803. A. March. d. h. m. 17 10 8	JAN FEB MAR APRIL O MAY . JUNE . JULY . AUG OCT ONOV DEC	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	d. h. m. 27 2 36 25 12 20 26 21 3 25 5 25 10 15 48 24 14 22 23 0 52 22 13 35 21 4 45 19 21 54 19 15 59 3 0 5 18 9 46 18 2 9	A.D. 806. b. March. d. h. m. 17 3 34	JAN FEB O MAR APRIL MAY . JUNE . JULY . AUG O SEPT OCT NOV DEC	d. h. m.  28 10 55 21 28 39 { 8 18 1 23 12 28 22 1 7 21 18 51 20 2 35 19 15 19 18 4 3 { 1 22 25 16 16 47 16 5 31 14 18 15 14 6 59  12 19 44	d. h. m.  23 19 16  22 12 15  8 13 16  24 2 18  22 13 19  21 21 53  20 5 2  19 11 49  17 19 23  2 1 33  16 4 40  15 16 24  14 6 54  13 23 57
804. G.F. 16 15 57	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG. SEPT. OCT. Nov. DEC.	11 20 14 11 8 58 9 21 42 8 10 26 7 28 10 6 11 54	16 16 21 15 4 8 15 13 45 13 21 45 13 5 0 11 12 29 10 21 19 9 8 29 7 22 34 7 15 28 6 10 16 6 5 31	c. 17 9 23	FEB. O MAR. APRIL MAY . JUNE . JULY . AUG. O SEPT. OCT NOV. DEC.	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	11 13 26 26 3 54 13 7 0 11 22 12 11 10 37 9 20 29 9 4 48 7 12 17 22 2 15 5 20 16 5 5 29 8 16 29
805. k. 16 21 40	JAN. FEB. MAR. APRIL MAY JUNE JULY AUG. O SEPT. OCT. NOV. DEC.	$\begin{array}{c} \text{L} & 8 & 8 & 84 \\ 2 & 16 & 18 \\ \cdot & \begin{cases} 1 & 5 & 2 \\ 80 & 17 & 46 \\ 80 & 6 & 80 \\ \cdot & 28 & 19 & 14 \\ \begin{cases} 12 & 13 & 86 \\ 27 & 7 & 56 \\ \cdot & 26 & 20 & 46 \\ \cdot & 25 & 9 & 26 \\ \end{array} \end{array}$	1 4 59 3 30 11 46 2 9 19 36 4 28 5 32 3 12 19 7 3 26 18 21 2 26 10 18 3 25 4 38	5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	JAN. FEB.  MAR. APRIL MAY JUNE JULY AUG. SEPT. OCT. Nov. DEC.	1 6 6 6 80 18 4 29 7 24 28 20 14 25 10 2 28 28 21 5 22 0 5 22 0 5	3 31 13 27  1 6 56 4 31 0 7 3 29 16 0 2 29 5 53 6 27 17 35 0 27 3 35 4 25 12 40 8 23 21 42 12 23 7 24 36 21 18 6

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 809.		d. h. m.	d. h. m.	A.D. 812.		d. h. m.	d. h. m.
G.	0	(5 7 43	5 19 26	D.C.	JAN	17 17 15	18 1 36
	JAN.	20 2 5	19 19 7	March.   d. h. m.	FEB	16 5 59	16 11 52
d. $h$ . $m$ .	FEB	18 14 49	18 9 25	16 14 27	MAR	16 18 43	16 20 51
16 21 1	MAR	20 3 33	20 0 42		APRIL	15 7 27	15 5 5
	APRIL	18 16 17	18 16 34		MAY .	14 20 11	14 13 25
	MAY .	18 5 1	18 8 21		JUNE.	13 8 55	12 22 53
	JUNE .	16 17 45	16 23 19		JULY.	12 21 39	12 10 22
	0	ſ 1 12 7	1 3 44		Aug	11 10 23	11 0 21
	JULY.	16 6 29	16 13 1		SEPT	9 23 7	9 16 42
1	Aug	14 19 13	15 1 19		Oct	9 11 51	9 10 39
	SEPT	13 7 57	13 12 32		0	24 6 13	23 23 4
	Oct	12 20 41	12 23 13		Nov	8 0 35	8 4 58
	Nov	11, 9 25	11 9 50		DEC	7 18 19	7 22 22
	DEC	∫10 22 9	10 20 38				
	0	(25 16 31	25 21 47	813.	JAN	6 2 3	6 13 47
810.	JAN	9 10 53	9 7 37	в.	FEB	4 14 47	5 2 44
F.	FEB.	7 23 37	7 18 56	16 20 16	MAR	6 3 31	6 18 16
17 2 50	MAR.	9 12 21	9 6 46		APRIL	S 4 16 15	4 21 50
	APRIL	8 1 5	7 19 30		0	19 10 87	19 14 8
	May.	7 13 49	7 9 18		May .	4 4 59	4 5 12
	JUNE.	(6 2 33	6 0 9		JUNE.	2 17 43	2 12 19
	0	20 20 55	20 20 32		JULY.	$\int 2  6  27$	1 20 16
	JULY.	5 15 17	5 15 34			<b>\81 19 11</b>	<b>31</b> 6 <b>1</b> 0
	Αυσ	4 4 1	4 6 55		Aug	30 7 55	29 18 48
	SEPT	2 16 45	2 21 37		SEPT	28 20 39	28 10 27
	000	(2 5 29	2 11 23		0	$\begin{cases} 13 & 15 & 1 \\ 23 & 23 & 23 \end{cases}$	13 15 7
	Oct	(31 18 13	(1 0 11		Ocr	28 9 23	28 4 83
	Nov	30 6 57	$\begin{cases} 1 & 0 & 11 \\ 30 & 12 & 9 \end{cases}$		Nov.	26 22 7	26 28 54
	0	ſ <sup>1</sup> 5 1 19	14 20 52		Dec	26 10 51	26 18 52
	Dec	29 19 41	29 23 19	814.	JAN	24 23 36	25 11 56
811.	JAN	28 8 26	28 9 48	Α.	FEB	23 12 20	21 2 10
E.	FEB	26 21 10	26 19 42	17 2 5	MAR.	25 1 4	25 18 27
17 8 39	MAR	28 9 54	28 5 27		0	(8 19 26	8 15 22
	APRIL	26 22 38	26 15 43		APRIL	23 13 48	23 22 14
	MAY .	26 11 22	26 3 15		May .	23 2 32	28 5 24
	0	10 5 44	10 13 11		JUNE .	21 15 16	21 12 2
	June .	$\{25 \ 0 \ 6\}$	24 16 31		JULY .	21 4 0	20 19 18
	JULY.	24 12 50	24 7 34	1	Aug	19 16 44	19 4 8
	Aug	23 1 34	22 23 51	ĺ	SEPT	18 5 23	17 15 27
	SEPT	21 14 18	21 16 36		0	2 23 50	8 5 8
	Oct	21 3 2	21 8 54		Oct	17 18 12	17 5 54
	Nov	19 15 46	20 0 4		Nov.	16 6 56	15 28 12
	DEC	19 4 30	19 13 42		DEC	15 19 40	15 18 21
					1	İ	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 815. G. March. d. h. m. 17 7 54	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	d. h. m.  14 8 25 12 21 9 14 9 58 12 22 37 12 11 21 11 0 5 10 12 49 9 1 88 7 14 17 7 8 1 5 15 45 5 4 29	d. h. m. 14 18 51 18 7 57 14 28 27 18 11 58 12 21 82 11 5 16 10 12 9 8 19 20 7 3 47 6 14 19 5 3 28 4 19 17	A.D. 818. c. March. d. h. m. 17 1 20	JAN  O FEB  MAR  APRIL  MAY .  JUNE .  JULY .  O AUG  SEPT  OCT  Nov  DEC	d. h. m.  {10 23 85 25 17 57 9 12 19 11 1 3 9 18 47 9 2 31 7 15 15 { 7 3 59 21 22 21 5 16 43 4 5 27 3 18 11 2 6 55 { 1 19 39	1 . 1
816. F.E.	JAN FEB O MAR APRIL MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.	$ \begin{cases} 2 & 5 & 57 \\ 17 & 0 & 19 \\ 2 & 18 & 41 \\ 1 & 7 & 25 \\ 30 & 20 & 9 \\ 80 & 8 & 58 \\ 28 & 21 & 37 \\ 28 & 10 & 21 \\ 26 & 28 & 5 \\ 25 & 11 & 48 \\ 25 & 0 & 38 \\ 28 & 18 & 17 \\ \end{cases} $	2 7 55 17 8 26 8 2 7 1 18 29 8 18 15 80 19 21 29 4 28 28 12 18 5 26 20 8 0 25 4 50 0 24 15 1 7 23 8 5	819. B. 17 7 9	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG. SEPT. OCT. NOV. DEC.	26 12 47 26 1 31 24 14 15 23 2 59 22 15 48 21 4 27	29 17 81 28 4 48 29 16 44 28 5 43 27 19 53 26 11 3 26 2 37 24 17 56 23 8 30 3 22 22 5 7 21 10 40
817. D. 16 19 8:	JAN. O FEB. MAR. APRI MAY JUNE O AUG SETT OCT. NOV. DEG.	5 9 20 8 8 21 16 1- 20 4 5 19 17 4 18 6 2 17 19 1 1 18 8 16 7 8 14 20 8 14 9 2 12 22	8 5 19 15 0 20 1 55 4 21 19 10 8 20 11 40 2 20 2 38 6 18 15 24 0 18 2 21 1 0 50 64 16 12 2 18 14 21 14 6 12 17		JAN. FEB. MAR. APRII MAY O JUNE JULY AUG. SEPT. Oct. Nov. O DEC.	. 17 18 4 . 18 7 2 . 16 20 . {16 8 5 {81 3 1 . 14 21 8 . 14 10 2 . 12 28 . 11 11 4 . 11 0 5	0 17 19 2 4 18 4 33 8 16 14 12 52 16 0 47 4 31 12 41 66 14 13 0 10 14 3 8 4 12 19 0 11 11 50 32 11 4 44 16 9 20 49

Mean Vernal Equinox,	Month.	Mean New Moon.	Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.
A.D. 821.		d. h. m.	d. h. m.	A.D. 824.		d. h. m.	d. h. m.
F. March.	JAN	7 14 45	8 0 15	C.B.	JAN	5 5 54	5 8 7
d. $h.$ $m.$	FEB	6 3 29	6 11 14	March.	FEB	3 18 38	4 8 1
16 18 47	MAR	7 16 13	7 20 38	d. h. m. 16 12 13		(4 7 22	4 19 50
	APRIL	6 4 57	6 4 56		0	19 1 44	18 21 9
	MAY.	( 5 17 41	5 12 54		APRIL	2 20 6	8 9 45
	0	20 12 3	20 22 34			(2 8 50	2 20 40
	JUNE.	4 6 25	3 21 31	]	MAY.	31 21 34	
	JULY.	3 19 9	3 7 47		JUNE.	30 10 18	$\begin{cases} 1 & 5 & 14 \\ 80 & 12 & 18 \end{cases}$
		(2 7 53	1 20 28	1	JULY.	29 23 2	29 19 28
j	Aug	31 20 37	31 11 48		Aug.	28 11 46	28 8 18
	SEPT	30 9 21	30 5 15		0	(12 6 8	12 8 50
	Oct	29 22 5	29 23 45		SEPT.	27 0 30	26 12 50
	0	(13 16 27	13 8 52		OCT.	26 18 14	26 0 48
	Nov.	28 10 49	28 17 57		Nov.	25 1 58	24 15 14
	DEC	27 23 33	28 10 35		DEC	24 14 42	24 8 5
822.	Jan	06 10 15	07 0 40				
E.	FEB.	26 12 17 25 1 1	27 0 48	825.	JAN	23 8 27	28 2 26
17 0 36	MAR.		25 12 26	A.	FEB	21 16 11	21 20 58
	APRIL	26 13 45 25 2 29	26 21 45		0	§ 8 10 33	8 12 10
ŀ	MAY.	24 15 13	25 5 28	16 18 2	MAR	23 4 55	23 14 9
	JUNE.		24 12 27		APRIL	21 17 39	22   5   12
	JULY.	23 3 57 22 16 41	22 19 45		MAY .	21 6 28	21 17 87
į	Aug.	21 5 25	22 4 33		JUNE.	19 19 7	20 8 89
	SEPT.		20 15 46		JULY.	19 7 51	19 12 8
ĺ	Oct.		19 6 0		A.ug	17 20 35	17 20 5
-	1	19 6 53	18 23 6 3 0 36		0	1 14 57	1 9 14
		17 19 37			1 1	(16 9 19	16 4 27
İ	DEC.	17 8 21	17 18 7		Ocr	15 22 8	15 14 0
	220.	11 0 21	17 13 34		Nov	14 10 47	14 1 10
823.	T	12 04 -			Dec	18 28 81	18 14 12
D.	JAN	15 21 6	16 7 46				
17 6 25	Feb Mar	14 9 50	14 23 27	826.	JAN	12 12 16	12 5 0
	APRIL	15 22 34	16 12 6	G.	FEB	11 1 0	10 21 15
	MAY .	14 11 18	14 21 56	16 23 51	MAR.	12 18 44	12 14 12
1	JUNE .	14 0 2	14 5 43		APRIL	11 2 28	11 6 58
	JULY.	12 12 46	12 12 26	ŀ	MAY .	10 15 12	10 22 40
1	Aug.	12 1 30	11 19 14		JUNE .	9 8 56	9 12 86
1	SEPT.	10 14 14	10 3 10		July .	8 16 40	9 0 87
ļ	17	9 2 58	8 13 17		Aug	7 5 24	7 11 2
	Oct.	23 21 20	24 3 0		SEPT	5 18 8	5 20 87
	Nov.	8 15 42 7 4 26	8 2 16	1	Oct	5 6 52	5 6 9
- 1			6 18 15		Nov.	3 19 36	8 16 10
	Dec.	6 17 10	6 12 39	I		0 70 00 1	O TO TO !

Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	True New
Equinox.		(O Full Ecl.)	(O Full Ecl.)	Equinox.	aronon.	(O Full Ecl.)	(O Full Ecl.)
A.D. 827. F.		d. h. m.	d. h. m.	A.D. 830.		d. h. m.	d. h. m.
<b>.</b>	JAN. O	$\begin{cases} 1 & 21 & 4 \\ 16 & 15 & 26 \end{cases}$	1 14 46 17 3 28	B. March.	JAN	28 0 58	28 10 16
	0	31 9 48	31 3 28	d. h. m.	FEB	26 13 42	26 20 17
March.	FEB		01 0 20	16 23 6	MAR	28 2 26	28 4 52
d. h. m.	3.5	(12232	1 17 10		APRIL	26 15 10	26 12 41
17 5 40	Mar	81 11 16	31 7 51		MAY .	26 3 54	25 20 41
	APRIL	30 0 0	29 23 14		JUNE.	24 16 38	24 5 55
	MAY .	29 12 44	29 14 48		July.	24 5 22	23 17 16
	JUNE.	28 1 28	28 5 53		Aug.	22 18 6	22 7 21
	0	(12 19 50	12 11 7		SEPT.	21 6 50	20 23 57
	July.	27 14 12	27 19 55		Oct	20 19 34	20 18 17
	Aug	26 2 56	26 8 <b>4</b> 5		Nov.	{ 4 13 56 }19 8 18	4 7 47
	SEPT	24 15 40	24 20 34		DEC.	(19 8 18 18 21 2	19 <b>1</b> 2 59 19 6 <b>40</b>
	Oct	24 4 24	24 7 47		DE0	10 21 2	19 0 40
	Nov	22 17 8	22 <b>1</b> 8 <b>4</b> 3	831.	JAN	17 9 47	17 22 13
	DEC	22 5 52	22 5 35	A.	FEB	15 22 31	16 11 5
000	0	6 0 15	6 5 44	17 4 55	MAR	17 11 15	17 21 22
828. E.D.	JAN FEB	(20 18 37	20 16 23		APRIL	(15 23 59	16 5 39
16 11 29	MAR.	19 7 21 19 20 5	19 3 16		0	(30 18 21	30 20 47
10 11 25	APRIL	19 20 5 18 8 49	19 <b>1</b> 4 31 18 2 38		MAY.	15 12 43	15 12 44
	MAY.	17 21 33	18 2 38   17 16 0		June.	14 1 27	13 19 40
	June.	16 10 17	16 6 37		JULY.	13 14 11	13 3 34
	0	(1 4 39	1 4 0		Aug	12 2 55	11 13 29
	July.	15 23 1	15 22 6		SEPT	10 15 39	10 2 14
	Aug	14 11 45	14 13 49		Oct	(10 4 23	9 18 4
	SEPT	13 0 29	13 5 5		O Nov	24 22 45 8 17 7	24 23 44   8 12 23
	Oct	12 13 13	12 19 28		Dec	8 17 7 8 5 51	8 7 58
	Nov	11 1 57	11 8 48		DEC	0 3 31	0 1 30
	DEC	\$10 14 41	10 21 2	832.	JAN	6 18 36	7 2 56
	0	(25 9 8	25 4 55	G.F.	FEB	5 7 20	<b>5 1</b> 9 58
829.	JAN	9 3 26	9 8 14	16 <b>1</b> 0 44	MAR	5 20 4	6104
C.	Fкв	7 16 10	7 18 27		APRIL	§ 4 8 48	4 21 10
16 17 18	MAR	9 4 54	9 3 55		0	<b>19 3 10</b>	18 22 20
	APRIL	7 17 38	7 13 9		MAY .	3 21 32	4 5 47
	MAY.	7 6 22	6 22 56		June.	2 10 16	2 12 51
	JUNE.	5 19 6	5 10 5		July .	$\begin{cases} 1.23 & 0 \\ 0.11 & 4 \end{cases}$	1 19 30
	Trrry	20 18 28 5 7 50	20 20 28 4 23 10		A ====	(31 11 44 30 0 28	31 2 47 29 11 48
	July .	5 7 50 8 20 34	8 14 15		AUG	30 0 28 28 13 12	29 11 48 27 23 22
	SEPT.	2 9 18	2 6 52		SEPT.	(13 7 34	18 13 23
		(122 2	2 0 6		Oct.	28 1 56	27 <b>1</b> 3 56
	Ocr	81 10 46	81 16 57		Nov.	26 14 40	26 7 16
	Nov	29 23 30	80 8 85		DEC.	26 3 24	26 2 20
	DEC.	29 12 14	29 22 25				
L				·		·	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 833.		d. h. m.	d. h. m.	A.D. 836.		d. h. m.	d. h. m.
E.	JAN	24 16 8	24 21 38	B.A.	JAN	22 7 18	22 1 15
March. d. h. m.	FEB	23 4 52	23 15 32	3/53	0	6 1 40	6 15 2
16 16 33	MAR	24 17 36	25 6 52	March. $d. h. m.$	FEB	(20 20 <b>2</b>	20 14 11
	0	(8 11 58	8 6 12	16 9 59	MAR	21 8 46	21 4 5
	APRIL	23 6 20	23 19 12		APRIL	19 21 30	19 18 55
	MAY .	22 19 4	23 4 50		MAY .	19 10 14	19 10 19
	June .	21 7 48	21 12 39		June.	17 22 58	18 1 42
	JULY.	20 20 32	20 19 43		July.	17 11 42	§17 16 25
	Aug	19 9 16	19 3 9		0	1 6 4	[31 19 1
	SEPT	17 22 0	17 11 53		Aυσ	16 0 26	16 6 6
	Ocr	17 10 44	16 22 40		SEPT	14 13 10	14 18 41
	Nov	15 23 28	15 11 54		Ост	14 1 54	14 6 25
	Dec	15 12 12	15 3 34		Nov	12 14 38	12 17 41
					Dec	12 8 22	12 4 89
834.	JAN	14 0 57	13 21 9				
D.	FEB	(12 13 41	12 15 29	837.	JAN	10 16 7	10 15 26
	0	27 8 3	27 11 51	G.	FEB	9 4 51	9 2 3
16 22 22	MAR	14 2 25	14 9 20	16 15 48	MAR	10 17 35	10 12 48
	APRIL	12 15 9	13 1 29		APRIL	9 6 19	9 0 7
	MAY .	12 3 53	12 15 12		MAY .	8 19 3	8 12 85
	JUNE .	10 16 37	11 2 24		JUNE.	7 7 47	7 2 26
	JULY.	10 5 21	10 11 41		JULY.	6 20 31	6 17 82
	Aug	8 18 5	8 19 57		Aug	<b>5</b> 9 15	5 9 21
	SEPT	7 6 49	7 4 13		SEPT	<b>3 21 5</b> 9	419
	Ocr	6 19 33	6 13 17		Ост	3 10 48	8 16 20
	Nov	5 8 17	4 23 42		Nov	1 28 27	2 6 28
	DEC	4 21 1	4 11 48		DEC	1 12 11	1 19 26
					DEC	(31 0 55	31 7 12
835.	JAN	3 9 46	3 1 37				
C.	FEB	§ 1 22 30	1 16 58	838.	JAN	29 18 89	29 17 49
	0	16 16 52	17 3 41	F.	FEB	28 2 28	28 <b>8 24</b>
17 4 11	MAR	3 11 14	3 9 23	16 21 37	MAR	29 15 7	29 12 26
	APRIL	1 23 58	2 2 7		APRIL	28 8 51	27 21 85
	MAY .	§ 1 12 42	1 18 21		MAY .	27 16 35	27 7 45
į	_	(31 1 26	31 9 12		0	(11 10 57	11 19 52
	JUNE .	29 14 10	29 22 15		JUNE .	126 5 19	25 19 42
	JULY.	29 2 54	29 9 36		JULY .	25 18 3	25 9 48
	0	12 21 16	12 8 0		Aπg	24 6 47	24 1 52
	AUG	27 15 38	27 19 47		SEPT	22 19 31	22 19 7
	SEPT.	26 4 22	26 5 30		Ост	22 8 15	22 12 84
	Nov.	25 17 6	25 15 24		Nov	20 20 59	21 5 8
-	DEC.	24 5 50 23 18 34	24 1 56		~ 0	5 15 21	5 5 15
	J. 2010.	25 15 54	23 13 12		DEC	20 9 43	20 20 2
			1	1	1	1	}

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 839. E. March. d. h. m. 17 8 25	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV	d. h. m.  18 22 28 17 11 12 18 23 56 17 12 40 {17 1 24 31 19 46 15 14 8 15 2 52 13 15 36 12 4 20 11 17 4 {10 5 48 25 0 10	d. h. m.  19 8 56 17 19 43 19 4 47 17 12 41 16 20 18 { 1 5 21 15 4 39 14 14 47 13 3 29 11 18 58 11 12 45 10 7 37 24 17 48		JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT NOV	d. h. m.  15 13 38  14 2 22  {15 15 6  30 9 28  14 3 50  13 16 34  12 5 18  11 18 2  10 6 46  { 8 19 30  23 13 52  8 8 14  6 20 58	Moon. (O Full Ecl.)  d. h. m.  15 15 59  14 10 89  16 3 16  30 4 55  14 17 3  14 3 55  12 12 38  11 19 57  10 3 13  8 11 21  23 16 16  7 21 9  6 9 12
840. p.c. 16 9 14	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OOT O NOV DEC	9 18 32 8 7 17 6 20 1 7 8 45 5 21 29 5 10 13 20 4 35 3 22 57 3 11 41 2 0 25 81 18 9 80 1 53 29 14 37 {18 8 59 28 3 21 27 16 5	8 18 56 7 9 8 7 20 35 6 5 37 5 13 4 20 7 54 3 19 52 3 3 6 1 11 54 30 23 13 29 13 87 29 6 53 18 9 26 28 2 4 27 21 84	843. 6. 17 2 41	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG O SEPT OOT Nov DEC	$\begin{array}{c} 6 & 9 & 42 \\ 4 & 22 & 27 \\ 3 & 11 & 11 \\ 4 & 23 & 55 \\ 19 & 18 & 17 \\ 3 & 12 & 39 \\ 3 & 1 & 23 \\ 1 & 14 & 7 \\ \begin{cases} 1 & 2 & 51 \\ 30 & 15 & 35 \\ 29 & 4 & 19 \\ 12 & 22 & 41 \\ 27 & 17 & 3 \\ 27 & 5 & 47 \\ 25 & 18 & 31 \\ 25 & 7 & 15 \end{array}$	5 28 39 4 16 16 3 10 10 5 4 18 19 20 18 3 21 11 3 12 7 2 0 34 1 10 50 30 19 39 29 4 1 12 16 23 27 12 47 26 22 39 25 9 56 24 22 49
841. n. 16 15 8	JAN FEB MAR APRIL MAY JUNE JULY . AUG SEPT OCT NOV DEC	26 4 49 24 17 88 26 6 17 24 19 1 24 7 45 22 20 29 22 9 18 20 21 57 19 10 41 13 28 25 17 12 9 17 0 58	26 15 44 25 7 19 26 19 49 25 5 29 24 13 9 22 19 52 22 2 46 20 10 58 18 21 11 18 10 18 17 2 21 16 20 40	844. F.E. 16 8 30	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	28 19 59 22 8 48 22 21 27 21 10 11 20 22 55 19 11 39 19 0 28 17 18 7 16 1 51 15 14 35 14 3 19 13 16 3	23 18 14 22 4 54 22 21 18 21 18 42 21 5 15 19 19 18 19 7 38 17 18 38 16 4 41 15 14 40 14 1 0 13 11 56

Mean Vernal Equinox.	Month.	Mean New Moon.	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (○ Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 845.	<del></del>	d. h. m.	d. h. m.	A.D. 848.		d. h. m.	d. h. m.
10.	JAN	∫12 4 48	11 23 29	March.	JAN	9 19 58	10 7 4
March.	0	\26 23 10	27 11 37	d. $h.$ $m.$	Feb	8 8 42	8 18 50
d. $h.$ $m.$	FEB	10 17 32	10 11 43	16 7 45	Mar	8 21 26	9 4 34
16 14 18	MAR	12 6 16	12 0 50		APRIL	7 10 10	7 12 46
	APRIL	10 19 0	10 14 55		MAY .	6 22 54	6 20 14
	MAY.	10 7 44	10 5 53		June.	5 11 38	5 8 57
1	JUNE.	8 20 28	8 21 16		JULY.	5 0 22	4 13 0
	JULY.	∫ 8 9 12	8 12 28		Αυς	3 13 6	3 0 20
	0	123 3 34	22 18 36		SEPT	2 1 50	1 14 30
	Aug	6 21 56	7 2 54		Ост	$\int 1 14 34$	1 7 21
	Sept	5 10 40	5 16 18			\31 3 <b>1</b> 8	31 2 1
	Ост	4 23 24	5 4 43		0	{14 21 40	14 16 38
	Nov	3 12 8	3 16 27		Nov	129 16 2	29 <b>21 2</b>
	DEC	3 0 52	3 3 40		Dec	29 4 46	29 14 56
		( 1 13 37	1 14 33		_	07 47 04	
846.	Jan. O	16 7 59	16 13 37	849. F.	JAN	27 17 31	28 6 32
C.		31 2 21	31 1 6		FEB	26 6 15	26 19 16
	FEB			16 13 34	Mar	27 18 59	28 5 19
16 20 7	MAR	∫ 1 15 5	1 11 28		APRIL	26 7 43	26 13 20
10 20 .	MAR.	<b>\31 3 49</b>	30 22 9		0	$\begin{cases} 11 & 2 & 5 \\ 27 & 22 & 27 \end{cases}$	11 3 21
	APRIL	29 16 33	29 9 43		MAY.	125 20 27	25 20 14
	MAY .	29 5 17	28 22 39		June.	24 9 11	24 8 4
	JUNE .	27 18 1	27 13 6		JULY.	23 21 55	23 10 57
	0	$\int 12 \ 12 \ 23$	12 11 32		Aug	22 10 39	21 20 58
	July.	27 6 45	27 4 42		SEPT.	20 23 23	20 9 51
	Aug	25 19 29	25 20 49		Ocr	20 12 7	20 1 50
	SEPT	24 8 13	24 12 40		, O	$\begin{cases} 4 & 6 & 29 \\ 10 & 0 & 71 \end{cases}$	4 8 29
	Ост	23 20 57	24 3 39		Nov.	10 10 0 51	18 20 17
	Nov	22 9 41	22 17 27		DEC	18 13 35	18 15 51
	DEC	21 22 25	22 5 55	850.	JAN.	17 2 19	17 10 53
	0	5 16 47	5 12 55	E.	FEB	15 15 8	16 8 50
847.	JAN	20 11 9	20 17 2	16 19 23	MAR	17 3 47	17 17 48
B.	FEB	18 23 53	19 2 58		APRIL	(15 16 31	16 4 44
17 1 56	MAR.	20 12 37	20 11 58		0	80 10 58	30 5 14
	APRIL	19 1 21	18 20 43		MAY .	15 5 15	15 13 14
	MAY.	18 14 5	18 6 4		JUNE.	13 17 59	13 20 17
	June.	17 2 49	16 16 54		JULY.	13 6 43	13 3 0
	_ 0	§ 1 21 11	2 3 46		Aug	11 19 27	11 10 28
	JULY.	16 15 33	16 5 50		SEPT	10 8 11	9 19 40
	Aug	15 4 17	14 21 2		Oct	ſ 9 20 55	9 7 26
	SEPT	13 17 1	13 14 0		0	24 15 17	24 21 42
	Oct.	13 5 45	13 7 44		Nov	8 9 39	7 22 5
1	Nov.	11 18 29	12 1 5		DEC	7 22 23	7 15 21
	DEC.	11 7 13	11 17 5				

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 851.		d. h. m.	d. h. m.	A.D. 854.		d. h. m.	d. h. m.
March.	JAN	6 11 8	6 10 16	G.	JAN	3 2 18	2 22 4
d. h. m.	FEB	4 23 52	5 5 19		FEB	1 15 2	1 9 44
17 1 11	Mar	6 12 36	6 22 59	March.	0	16 9 24	16 23 5
	APRIL	∫ 5 1 20	5 14 9	d. h. m. 16 18 38	Mar	3 3 46	2 22 6
	0	19 19 42	19 13 39		APRIL	1 16 30	1 11 23
	MAY .	4144	5 2 24			(1 5 14	1 1 40
	JUNE.	3 2 48	3 12 4		MAY.	30 17 58	30 16 46
	July.	2 15 32	2 20 2		JUNE.	29 6 42	29 8 10
		(1 4 16	1 3 22		July.	28 19 26	28 23 12
	Aug	30 17 0	30 11 7		0	(12 13 48	12 2 36
	SEPT	29 5 44	28 20 9		Aug.	27 8 10	27 13 24
	Oct	28 18 28	28 7 8		SEPT	25 20 54	26 2 36
	Nov	27 7 12	26 20 24		Oct	25 9 38	25 14 55
	DEC	26 19 56	26 11 52		Nov.	23 22 22	24 2 32
		1			Dec	23 11 6	23 13 38
852.	JAN	25 8 41	25 5 3				
С.В.	FEB.	23 21 25	28 22 58	855.	JAN	21 23 50	22 0 14
	0	( 9 15 47	9 20 7	F.	FEB	20 12 34	20 10 27
16 7 0	MAR.	24 10 9	24 16 26	17 0 27	MAR	22 1 18	21 20 38
1.0	APRIL	22 22 53	23 8 21		APRIL	20 14 2	20 7 24
	MAY.	22 11 37	22 22 3		MAY.	20 2 46	19 19 23
	June .	21 0 21	21 9 26		June.	18 15 30	18 8 58
	JULY.	20 13 5	20 19 3		JULY.	18 4 14	18 0 3
	Aug.	19 1 49	19 3 44		Aug	16 16 58	16 16 10
	SEPT.	17 14 33	17 12 25	l	SEPT	15 5 42	15 8 29
	Oct.	17 8 17	16 21 52		Oct	14 18 26	15 0 15
	Nov.	15 16 1	15 8 30		Nov	13 7 10	13 14 56
	DEC.	15 4 45	14 20 34		DEC	12 19 54	13 4 14
İ	220	10 1 10	22 20 01				
250	7	10 17 00	10 10 0	856. E.D.	JAN	11 8 39	11 16 4
853.	JAN.	18 17 29	13 10 3	11	FEB	9 21 23	10 2 26
A.	FEB.	12 6 13	12 0 52	16 6 16	MAR	10 10 7	10 11 39
10.10.10	0	27 0 35	27 11 57		APRIL	8 22 51	8 20 12
16 12 49	MAR.	18 18 57	13 16 42		MAY .	8 11 35	8 4 55
	APRIL	12 7 41	12 8 59		June .	7 0 19	6 14 44
	MAY .	11 20 25	12 0 55		0	21 18 41	22 3 3
	JUNE .	10 9 9	10 15 47		JULY.	6 13 3	6 2 28
	JULY.	9 21 58	10 5 7		Aug.	5 1 47	4 16 35
	Aug.	8 10 87	8 16 55		SEPT.	3 14 31	3 8 53
	0	(28 4 59	22 15 18		Oct	3 3 15	3 2 34
1	SEPT.		7 3 37		Nov.	1 15 59	1 20 30
	Oct		6 13 51		1 -	1 4 43	
	Nov.		5 0 11		DEC. O	1.7	1
	DEC	4 13 33	4 10 53			30 17 27	31 4 38
	1			11	1	1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT NOV O	d. h. m.  29 6 12  27 18 56  29 7 40  27 20 24  27 9 8  (11 3 30  (25 21 52  25 10 36  23 23 20  22 12 4  22 0 48  20 13 32  (5 7 54  20 2 16			JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT NOV DEC	d. h. m. 26 21 22 25 10 6 25 22 50 9 17 12 24 11 34 24 0 18 22 18 2 22 1 46 20 14 30 19 8 14 8 21 36 18 15 58 17 4 42 16 17 26	d. h. m. 26 28 46 25 18 8 26 10 88 9 12 86 25 0 12 24 11 5 22 19 51 22 8 30 20 11 8 18 19 32 8 28 49 18 5 88 16 17 47 16 8 6
858. B. 16 17 58	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov O DEC	18 15 0 17 3 44 18 16 28 17 5 12 {16 17 56 81 12 18 15 6 40 14 19 24 18 8 8 11 20 52 11 9 36 { 9 22 20 24 16 42 9 11 4	19 3 11 17 17 19 19 4 33 17 13 22 16 20 37 31 14 20 15 3 17 14 10 31 12 19 23 11 6 50 10 21 22 9 14 45 24 18 28 9 10 0	861. E. 16 11 20	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT Nov DEC	15 6 10 18 18 54 {15 7 88 {30 2 0 13 20 22 13 9 6 11 21 50 11 10 84 9 28 18 { 8 12 2 23 6 24 8 0 46 6 18 80 6 2 14	15 0 21 18 17 47 15 11 23 30 4 18 14 4 8 18 18 52 12 7 27 11 18 0 10 8 15 8 12 2 22 28 88 7 21 15 6 7 24 5 18 46
859. 16 23 42	JAN FEB MAR AFRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	7 28 49 6 12 88 8 1 17 6 14 1 6 2 45 4 15 29 4 4 18 2 16 57 1 5 41 30 18 25 30 7 9 28 19 58 28 8 37	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	862. D. 16 17 9	Jan Feb Mar April May . June . July . Aug Sept Oct Nov Dec	4 14 59 8 8 48 4 16 27 8 5 11 2 17 55 (1 6 89 80 19 28 80 8 7 28 20 51 27 9 85 26 22 19 25 11 8 24 28 47	4 7 26 2 21 28 4 12 28 8 4 19 2 20 20 1 11 47 { 1 2 0 80 14 45 29 2 12 27 12 52 26 28 20 25 9 57 24 20 58

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 863.		d. h. m.	d. h. m.	A.D. 866.		d. h. m.	d. h. m.
c.	JAN	23 12 32	23 8 9	F	JAN	20 3 41	20 15 37
March.	0	(7 6 54	7 19 38	d. h. m.	FEB	18 16 25	19 3 13
d. h. m.	FEB	22 1 16	21 19 52	16 16 24	MAR.	20 5 9	20 12 39
16 22 57	MAR.	23 14 0	23 8 22		APRIL	18 17 53	18 20 32
16 22 57		22 2 44	21 21 52		MAY.	18 6 37	18 3 42
	APRIL	1	21 12 26			16 19 21	16 11 13
1	MAY.	21 15 28			JUNE.	16 8 5	15 20 9
	JUNE.	20 4 12	20 3 42		July.		
	July.	19 16 56	19 19 4	·	Aug	14 20 49	14 7 31
	0	3 11 18	3 2 12		SEPT	13 9 33	12 21 49
İ	Aug	18 5 40	18 9 59		Oct	12 22 17	12 14 53
	SEPT	16 18 24	16 23 59		Nov	(11 11 1	11 9 49
	Oct	16 7 8	16 13 0		0	126 5 28	26 1 31
	Nov	14 19 52	15 1 10		DEC	10 23 45	11 5 5
	DEC	14 8 36	14 12 38				
		(10.01.00	10.00.00	867.	JAN	9 12 30	9 23 8
864.	JAN	12 21 20	12 23 26	E.	FEB	8 1 14	8 14 41
B.A.	0	27 15 42	27 21 24	16 22 13	MAR.	9 13 58	10 3 16
	FEB	11 10 4	11 9 38		APRIL	8 2 42	8 13 6
16 4 46	MAR.	11 22 48	11 19 32		MAY.	( 7 15 26	7 20 55
	APRIL	10 11 32	10 5 39		0	22 9 48	22 9 51
	MAY .	10 0 16	9 16 43	,	_	6 4 10	6 3 41
	JUNE .	8 13 0	<b>8 5 1</b> 8		JUNE .	5 16 54	5 10 30
	JULY.	(8 1 44	7 19 36		JULY.	1	3 18 26
	0	22 20 6	22 19 5	ŀ	Aug.	4 5 38	
	Aug.	1	6 11 24		SEPT	2 18 22	2 4 34
	SEPT.		5 8 56		Oct	[ 2 7 6	1 17 37
	_	4 15 56	4 20 20	li	001.	31 19 50	31 9 44
Ì	Ocr.		8 11 58	1	0	15 <b>14</b> 12	15 17 18
	Nov.	-   -	_ "	11	Nov.	(30 8 34	30 4 14
	DEC.	. 2 17 24	8 2 7		DEC	29 21 18	29 23 48
	1	1 6 9	1 14 45	\\		1	
865.	JAN.	o {16 0 <b>81</b>	15 20 54	868.	JAN.	28 10 3	23 18 46
G.		(80 18 58	81 1 45	D.C.	FEB.	26 22 47	27 11 33
	FEB.			16 4 2	MAR.	. 27 11 81	28 1 22
	1	(1 7 87	1 11 20	11	APRIL	26 0 15	26 12 11
16 10 35	MAR.	80 20 21	l		0	(10 18 37	10 12 5
	APRII	1 00 0 -	29 4 15	1	MAY	.  {25 12 59	25 20 38
	MAY		1		JUNE	1	3 24 3 44
	JUNE			1	JULY	00 44 05	7 23 10 35
		(12 4 55			Aug.		
1	7	13		II	SEPT.		
	JULY	1,000		.	Oct.	20 4 39	
	Aug.			[]	1	•	1 4 6 8
	SEPT.	1	1	11	Nov.	. 18 17 2	
1	Ocr.	. 28 18 29	1	. 11	1		7 17 23 80
Į.	Nov.		i	11	DEC.	. 10 0	1. 20 00
	DEC.	. 21 14 57	7   22   1 84	<u> </u>			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 857. c. March. d. h. m. 16 12 4	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OCT Nov O Dec	d. h. m.  29 6 12  27 18 56  29 7 40  27 20 24  27 9 8  {11 3 80  25 21 52  25 10 36  23 28 20  22 12 4  22 0 48  20 13 32  { 5 7 54  20 2 16	d. h. m. 29 17 36 28 4 4 29 12 48 27 20 21 27 3 41 11 12 5 25 11 51 24 21 54 28 10 40 22 2 20 21 20 22 20 15 33 5 2 39 20 10 18	A.D. 860. G.F. March. d. h. m. 16 5 31	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT Nov DEC	d. h. m. 26 21 22 25 10 6 25 22 50 { 9 17 12 24 11 84 24 0 18 22 1 46 20 14 80 19 8 14 { 8 21 86 18 15 58 17 4 42 16 17 26	d. h. m.  26 23 46  25 18 8  26 10 83  9 12 86  25 0 12  24 11 5  22 19 51  22 3 80  20 11 8  18 19 82  8 23 49  18 5 88  16 17 47  16 8 6
858. B. 16 17 53	JAN FEB MAR APRIL MAY . O JUNE . JULY . AUG SEPT OOT Nov O DEC	18 15 0 17 3 44 18 16 28 17 5 12 (16 17 56 81 12 18 15 6 40 14 19 24 13 8 8 11 20 52 11 9 36 (9 22 20 24 16 42 9 11 4	19 3 11 17 17 19 19 4 33 17 13 22 16 20 37 31 14 20 15 3 17 14 10 31 12 19 23 11 6 50 10 21 22 9 14 45 24 18 28 9 10 0	861. E. 16 11 20	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT Nov DEC	15 6 10 18 18 54 (15 7 88 80 2 0 18 20 22 13 9 6 11 21 50 11 10 84 9 23 18 { 8 12 2 23 6 24 8 0 46 6 18 80 6 2 14	15 0 21 18 17 47 15 11 23 80 4 18 14 4 8 18 18 52 12 7 27 11 18 0 10 8 15 8 12 2 22 28 88 7 21 15 6 7 24 5 18 46
859. 16 28 42	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC	7 23 49 6 12 38 8 1 17 6 14 1 6 2 45 4 15 29 4 4 13 2 16 57 { 1 5 41 30 18 25 30 7 9 28 19 53 28 8 37	8 5 31 6 28 37 8 15 4 7 3 24 6 12 57 4 20 35 4 3 22 { 2 10 24 { 31 18 45 30 5 16 29 18 31 28 10 33 28 4 41	862. D. 16 17 9	Jan Feb Mar April May . June . July . Aug Sept Oct Nov Dec	4 14 59 8 8 48 4 16 27 8 5 11 2 17 55 { 1 6 89 80 19 28 80 8 7 28 20 51 27 9 85 26 22 19 25 11 8 24 23 47	4 7 26 2 21 28 4 12 28 8 4 19 2 20 20 1 11 47 {1 2 0 80 14 45 29 2 12 27 12 52 26 28 20 25 9 57 24 20 58

Mean Vernal Equinox.	Month.	Mean New T Moon. Full Ecl.)	rue New Moon. Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 863.		d. h. m.	d. h. m.	A.D. 866.		d. h. m.	d. h. m.
с.	JAN	23 12 32 2	3 8 9	F.	JAN	20 3 41	20 15 37
March.		7 6 54	7 19 38	March.	FEB	18 16 25	19 8 13
d. h. m.	Fin	,	1 19 52	d. h. m. 16 16 24	MAR.	20 5 9	20 12 39
	FEB (	(	3 8 22	10 10 23	APRIL	18 17 53	18 20 32
16 22 57	MAR.		- 1			18 6 37	18 3 42
	APRIL		21 21 52		MAY.	16 19 21	16 11 13
	MAY .		21 12 26		JUNE.		
	JUNE.		20 3 42		July.	16 8 5	15 20 9
	July.	19 16 56	19 19 4		Aug	14 20 49	14 7 31
	0	3 11 18	3 2 12		SEPT	13 9 33	12 21 49
	Aug.	<b>18</b> 5 40 3	18 9 59		Oct	12 22 17	12 14 53
	SEPT	16 18 24	16 23 59		Nov	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	11 9 49
	Oct	16 7 8	16 13 0		0	26 5 28	26 1 31
	Nov.	14 19 52	15 1 10		DEC	10 23 45	11 5 5
	DEC	14 8 36	14 12 38				
		(10.01.00	12 23 26	867.	JAN	9 12 30	9 23 8
864.	JAN	)	- 11	E.	FEB	8 1 14	8 14 41
B.A.	0		27 21 24	16 22 13	MAR	9 13 58	10 3 16
	FEB		11 9 38		APRIL	8 2 42	8 13 6
16 <b>4 4</b> 6	MAR		11 19 32		MAY.	7 15 26	7 20 55
	APRIL		10 5 39		0	22 9 48	22 9 51
	MAY .	10 0 16	9 16 43		JUNE .	6 4 10	6 3 41
	June.	8 13 0	8 5 18	ı	July.	5 16 54	5 10 30
1	Jury.	8 1 44	7 19 36		Aug.	4 5 38	3 18 26
	0	22 20 6	22 19 5		SEPT	2 18 22	2 4 34
	Aug	6 14 28	6 11 24		) DEI 1	(276	
	SEPT	5 8 12	5 3 56		Ocr	81 19 50	81 9 44
	Ocr	4 15 56	4 20 20		1 _	(15 14 12	
	Nov	8 4 40	8 11 58		0	30 8 84	1 1
ł	DEC	2 17 24	3 2 7	•	Nov.	00 01 19	1
1		1 6 9	1 14 45		DEC.	20 21 10	20 20 30
005	JAN. O	16 0 81	15 20 54	868.	JAN.	28 10 8	23 18 46
865.	J AM. ()	80 18 58	81 1 45	D.C.	FEB.	26 22 47	
1	Fran	-50 10 00	20	16 4 2			1
	FEB	(1 7 87	1 11 20	10 4 2	APRIL	00 04	
16 10 35	MAR	30 20 21	30 <b>1</b> 9 55			(10 18 3	
		1,	29 4 15		MAY	K == == =	
	APRIL	29 9 5	28 13 12		JUNE		
	MAY .	28 21 49		11	JULY		
	JUNE .	27 10 38	26 23 45	'			
	_ 0	12 4 55	12 11 5		Aug.		
	July.	26 23 17	26 12 39		SEPT.	-	ī I
	Aug	25 12 1	25 4 0	li .	Oct.	. 20 4 3	
	SEPT	24 0 45	23 21 17		2.0	$\begin{cases} 3 & 23 \\ 10 & 17 \end{cases}$	
	Oct	28 13 29	23 15 27		Nov.	Carr	
	Nov		22 9 16		DEC.	. 18 6	7 17 23 30
	DEC	. 21 14 57	22 1 34		1		1

Mean Vernal	Month.	Mean New Moon.	True New Moon.	Mean Vernal	Month.	Mean New Moon.	Trae New Moon,
Equinox.	1	(O Full Ecl.)	(O Full Ecl.)	Equinox.		(O Full Ecl.)	(O Full Ecl.)
A.D. 869.		d. h. m.	d. h. m.	A.D. 872.		d. h. m.	d. h. m.
March.	JAN	16 18 51	16 18 8	F.E.	JAN	14 10 1	14 6 51
d. h. m.	FEB	15 7 35	15 12 52	March.	FEB	(12 22 45	12 18 6
16 9 50	MAR	16 20 19	17 6 15	d. h. m.	0	27 17 7	28 6 56
	APRIL	$\int 15 \ 9 \ 3$	15 21 16	16 3 17	MAR	18 11 29	18 5 58
	0	(30 3 25	29 21 2		APRIL	12 0 18	11 18 88
	MAY.	14 21 47	15 9 29		MAY.	11 12 57	11 8 21
	JUNE .	13 10 31	13 19 16		June.	10 1 41	9 28 12
	JULY.	12 23 15	13 3 26		July .	9 14 25	9 14 40
	Aug	11 11 59	11 11 5		Aug	5889	8 6 8
	SEPT	10 0 43	9 19 12		0	22 21 81	22 10 20
	Oct	9 13 27	9 4 33		SEPT	6 15 58	6 20 48
	Nov	8 2 11	7 15 44		Oct	6 4 87	6 10 87
	Dec	7 14 55	7 4 57		Nov	4 17 21	4 28 28
					DEC	4 6 5	4 11 26
870.	JAN	6 3 40	5 20 10				
Δ.	FEB	4 16 24	4 12 53	873.	JAN	<b>2 18 5</b> 0	2 22 84
16 15 39	MAR	$\begin{cases} 6 & 5 & 8 \end{cases}$	6 6 17	D.	FEB	1 7 84	1 8 56
	0	(20 23 30	21 4 14	16 9 6	MAR	2 20 18	2 18 44
	APRIL	4 17 52	4 23 21		APRIL	5192	1 4 28
	MAY .	4 6 36	4 15 5			180 21 46	80 14 88
	JUNE.	2 19 20	3 4 49		MAY.	80 10 80	80 2 11
	JULY.	2 8 4	2 16 28		June .	28 28 14	28 15 88
	<b>A</b>	31 20 48 30 9 32	$\begin{cases} 1 & 2 & 27 \\ 20 & 11 & 20 \end{cases}$		July.	28 11 58	28 6 41
	Aug	28 22 16	30 11 36		Aug	27 0 42	26 28 6
	SEPT	28 11 0	28 20 45 28 6 83		Sept	25 18 26	25 15 56
	Nov.	26 23 44	26 17 21		Oct	25 2 10	25 8 17
١.	DEC.	26 12 28	26 5 18		Nov.	28 14 54	28 28 27
	DEC		20 0 10		DEC	28 8 88	28 18 1
871.	Jan	25 1 13	24 18 27	874.	JAN	21 16 28	22 0 49
G.	FEB	23 13 57	23 8 42	C.	FEB	20 5 7	20 10 56
10.04.00	0	$\{10 \ 8 \ 19\}$	10 20 6	16 14 55	MAR	21 17 51	21 19 45
16 21 28	MAR	25 2 41	24 28 56		APRIL	20 6 85	20 8 54
	APRIL	23 15 25	23 15 48		MAY .	19 19 19	19 12 18
	MAY .	23 4 9	23 7 26		JUNE.	18 8 8	17 21 48
	JUNE.	21 16 53	21 22 21		0	5 8 2 25	8 10 14
	JULY .	21 5 37	21 12 1		JULY.	17 20 47	17 9 20
	Aug.	19 18 21	20 0 19		Aug	16 9 81	15 28 80
	O Sept	$\begin{cases} 3 & 12 & 43 \\ 18 & 7 & 5 \end{cases}$	2 22 46		SEPT	14 22 15	14 16 2
	OCT.	17 19 49	18 11 36	.	Ocr	14 10 59	14 10 8
	Nov.	16 8 33	17 22 22 16 9 8		Nov	12 28 48	18 4 80
	DEC.	15 21 17	16 9 8 15 19 52	]	DEC.	[12 12 27]	12 21 51
	-20	II	10 19 92		0	27 6 49	26 22 29
			11			ŀ	

Monn Vertical	Month,	Mean New 1	I'rue New	Menn		Mean New	True New
Keputiers.		( Fud Ecl.)(	Moon Full Ect.)	Vernal Equinox.	Month.	(O Full Ecl.)	Moon.
A.D.	Million Special		18	4.5		The same is a financial before the same page.	
875.	3	d. h. m.	d. h. m.	A.D. 878.		d. h. m.	d. h. m.
n. March,	JAS	11 1 11 1	1 13 9	R.	Jan	7 16 21	7 12 43
d. h. m.	Fin	9 13 55 4	0 1 55	March. $d$ , $h$ , $m$ .	Fen	6 5 5	6 7 24
10 20 43	Man.	11 239 1	11 12 16	16 14 10	MAR	7 17 49	8 1 28
	Aran	9 15 23	9 20 40		APRIL	ζ 6 6 88	6 17 38
	MAY.	9 4 7	9 8 56		O	21 0 55	20 20 9
	Junk.	y 7 16 51	7 11 2		MAY.	5 19 17	6 7 13
	7.3	•	22 18 17		June .	481	4 18 11
	dray.	7 5 85	6 19 4		Juny.	3 20 45	4 3 8
	Ara.	5 18 19	5 5 6		Aug	5 2 9 29	2 11 6
	SEP F.	4 7 8	8 17 57			(81 22 13	31 19 3
	Oct.	8 19 47	8 9 49		SEPT	80 10 57	30 8 58
	Nov.	2 8 81 :	2 4 6		0	(15 5 19)	15 7 26
	Dic.	$\binom{1}{16} \binom{1}{15} \binom{15}{15} \binom{15}{15} \binom{15}{15}$	1 28 81   16 11 88		Oct Nov	28 12 25	29 14 13   28 2 26
	1	1	81 18 25		DEC.	28 1 9	27 16 84
	4	1.01 0.00	()[ 1(1 2,)		1780.	20 1 0	21 10 01
				879.	JAN	26 13 53	26 8 23
878.	Jan.		80 11 19	1).	FEB	25 2 87	25 1 17
Adec	FEP.	1	29 1 21	16 19 59	MAR	26 15 22	26 18 26
16 2 32	MARI		20 12 24 27 21 1		O	[ 10 9 44	10 12 11
	MAY.	27 12 56	27 4 6		APRIL	(25 4 6	25 10 48
	i	(10.20-2	10 20 47		MAY .	24 16 50	25 1 14
	Junu.	(25 11 21	25 10 48		June .	28 5 84	28 14 19 28 1 14
	July .	25 8 8	24 18 0		July.	22 18 18	28 1 14   21 10 56
	Aug.	28 15 52	28 8 0		Aug.	19 19 46	19 20 14
	Sert.	22 4 86	21 14 87		SEPT.	(4 14 8	4 7 4
	Oct.	21 17 20	21 5 17		Ocr.	19 8 80	19 5 52
	Nov.	20 6 4	19 22 45		Nov.	17 21 14	17 16 16
	O	( 5 0 26	5 8 18		DEC	17 9 58	17 8 87
	Dac.	(19 18 48	19 18 0	990		15 22 42	15 16 0
				880.	JAN	14 11 26	14 5 26
877.	JAN.	18 7 88	18 18 24	16 1 48	MAR.	(15 0 10	14 19 54
γ.	Fan.	16 20 17	17 7 20	1 3 T T T T T T T T T T T T T T T T T T	()	29 18 82	80 4 46
16 8 21	MAR.	1H 9 1	18 22 87		APRIL	18 12 54	13 11 12
-	Arnii	16 21 45	17 10 50		MAY	1	18 2 52
	MAY	. 16 10 29	16 20 19		JUNE		11 18 15
1	JUNE.		15 8 58		July	. 11 8 6	11 8 42
4	Jun	į i		400	A.ua.		1
	Ava.				Serr.		
	Burt.	1			()	<b>22 22 50</b>	
	Octi		10 13 30		Ocr.	4	
Monte	Nov.		9 2 M 8 18 48		Nov.		1
i	Dac	. 9 8 87	חוי מו מ		DEG.	. 5 18 46	5 18 54
48	1	I and the second of the second	11 4 4 1 1 1 2 2	1 t			1

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Mean Vernal Equinox.	Month.	Mean New Moon.  O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. () Full Ecl.)
A.D.		d. h. m.	d. h. m.	A.D. 884.		d. h. m.	d. h. m.
881. A.	Jan	4 7 31	4 5 46 2 16 42	E.D.	Jan		2 10 0
March. d. h. m.	Fев	2 20 15 17 14 37	2 16 42   18 3 30	March.	FEB		1 0 4
16 7 36	MAR APRIL	4 8 59 2 21 43	4 3 55 2 15 47	d. h. m. 16 1 3	Mar	$\begin{bmatrix} 1 & 0 & 9 \\ 30 & 12 & 53 \end{bmatrix}$	1 11 30 30 20 39
	MAY.	∫ 2 10 27	2 4 44		APRIL	29 1 37	29 4 14
	June .	\\ 31 23 11 \\ 30 11 55	31 18 56 30 10 8		May . June .	28 14 21 27 3 5	28 11 8 26 18 31
	JULY.	30 0 39	30 10 6		JULY.	26 15 49	26 3 26
	0	<b>∫13 19 1</b>	13 9 53		Aug	25 4 33	24 14 50
	Aug.	128 13 23 27 2 7	28 17 8   27 7 44		SEPT	23 17 17 28 6 1	23 5 17 22 22 35
	SEPT	27 2 7 2 26 14 51	27 7 44 26 21 21		Nov	23 6 1 21 18 45	21 17 44
	Nov	25 3 35	25 9 56		0	∫ 6 13 7	6 10 30
	DEC	24 16 19	24 21 33		DEC	le 7 29	21 13 9
882.	JAN	23 5 4	23 8 14	885. c.	JAN	19 20 14	20 7 13 18 22 42
G.	0	$\begin{cases} 6 & 23 & 26 \\ 21 & 17 & 48 \end{cases}$	7 5 4	16 6 52	FEB	18 8 58	20 11 8
16 13 25	FEB MAR	21 17 48	21 18 6 23 3 30	10 0 02	APRIL	18 10 26	18 20 46
	APRIL	21 19 16	21 13 6		MAY.	17 23 10	18 4 25
	MAY .	21 8 0	20 23 41		June.	$\left\{ \begin{array}{cccc} 1 & 17 & 32 \\ 16 & 11 & 54 \end{array} \right.$	1 16 19 16 11 7
	JUNE .	19 20 44 19 9 28	19 11 58 19 2 14		July.	16 0 38	15 17 58
	July.	3 3 50	1		Aug.	14 13 22	14 2 3
	Aug	17 22 12	1		SEPT	13 2 6	12 12 22
	SEPT	16 10 56	16 11 10		Oct	12 14 50	12 1 31 10 17 45
	Nov.	15 23 40 14 12 24			Nov.	$\begin{bmatrix} 11 & 3 & 34 \\ 25 & 21 & 56 \end{bmatrix}$	26 2 9
	DEC.	14 1 2 24			DEC	10 16 18	10 12 16
883.	JAN.	(12 13 52	12 23 29	886.	JAN	9 5 2	9 7 43
F.	0	27 8 14	27 4 47	В.	FEB	7 17 46	8 2 28
	FEB.	11 2 36		16 12 41	MAR.	9 6 30 7 19 14	9 19 6
16 19 14	MAR.	1			APRIL MAY.	7 19 14	
	MAY				0	$\begin{cases} 22 & 2 & 20 \end{cases}$	l .
	June		1		June .	5 20 42	6 3 58
	JULY	.   5 8 18 16	8 6 41		JULY .		1
	0	123 12 38			Aug.		l
	AUG.	1			SEPT.	2 10 54	ł
	SEPT.	. 5 19 44 . 5 8 28			Oct	$\begin{cases} 1 & 23 & 36 \\ 31 & 12 & 22 \end{cases}$	
	Nov.	3 21 12			0	∫15 6 44	
	DEC.	. 3 9 56			Nov.	180 1 6	1
L		<u> </u>	1	II	DEC.	.   29 13 50	29 7 38

t waters on the terms of waters.	er e remande e any						
Moan Vornal Equinox,	Menth.	Mean New Moon.	True New Moon.	Menn Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 887.	The second secon	d. h. m.	d. h. m.	A.D. 890.		d. h. m.	d. h. m.
March.	JAN	28 2 85	23 1 56	1),	JAN	24 17 45	24 15 35
d. h, m	Fan	23 15 19	26 20 17		FEB	28 6 29	23 2 22
16 18 29	MAR.	28 4 8	28 13 23	March.	O	(10 0 51	10 14 39
	Argu.	26 16 47	27 4 14	16 11 56	MAR.	24 19 18	24 18 34
	٠,	(11 11 9)	11 4 20		APRIL	28 7 57	23 1 39
	MAY .	126 5 81	26 16 30		MAY .	22 20 41	22 15 1
	June .	21 18 15	25 2 27		JUNE .	21 9 25	21 5 40
	Juny .	21 6 59	21 10 56		JULY.	20 22 9	20 21 13
	Atu.	22 19 48	22 18 57		Aug	19 10 58	19 13 0
	SEPT	21 8 27	21 8 27		0	(8 5 15	2 18 13
	Ocr	20 21 11	20 13 8		SEPT	17 28 37	18 4 19
	Nov	19 9 55	19 0 27		Oct.	17 12 21	17 18 46
	DEC	18 22 89	18 18 81		Nov	16 1 5	16 8 6
					DEC	15 13 49	15 20 19
888.	JAN	17 11 21	17 4 25				20 20
Ra.F	FKH.	16 0 8	15 20 87	891.	JAN	14 2 81	14 7 27
16 0 18	MAR.	(16 12 52	16 18 29	C.	FEB	12 15 18	12 17 32
	1)	81 7 11	81 12 14	16 17 45	MAR.	14 4 2	14 2 54
The state of the s	Armit	15 1 86	15 6 9	10 11 40	APRIL	12 16 46	12 12 3
	May .	14 14 20	14 21 45		MAY.	12 10 40	11 21 48
	June .	13 8 4	18 11 84		June,	10 18 14	10 8 59
i	July .	12 15 48	12 28 80		July.	10 6 58	9 22 10
	Ara.	11 4 82	11 9 57		Aug.	(8 19 42	8 13 25
	Skrr.	9 17 16	9 19 86		0	28 14 4	28 10 81
	Oct.	9 6 0	9 5 14		SEPT	7 8 26	7 6 10
	Nov.	7 18 44	7 15 21		Oct.	6 21 10	6 28 80
	Dec.	7 7 28	7 2 16		Nov.	5 9 54	5 16 25
	1	, , ,	1		DEC.	4 22 88	5 7 59
889.		* 00 10	* 44 0		22200		0 . 30
10. N.	JAH.	5 20 12	5 14 2	000	T	8 11 22	8 21 48
10 6 7	Fan.	1 5 21 40	4 2 48 5 16 28	892.	JAN FEB	8 11 22 2 0 6	2 9 27
1 *** * /	MAR.	20 16 2	21 4 8	15 28 81	MAR.	2 12 50	2 19 18
	APRIL	4 10 24	4 7 0	10 20 01	ITA A II.	(1 1 84	1 8 44
<b>5</b>	MAY .	8 28 8	8 22 21		APRIL	80 14 18	80 11 28
	JUNE .	1	2 18 58		MAY .	80 8 2	29 19 27
		1 2 0 86	2 4 55		June .	28 15 46	28 4 44
	Jun.	81 18 20	1		0	(18 10 8	
	Aco.	1	80 7 49		July .	28 4 80	l
1	()	(18 20 26	1		Aug.		
	Barr.	1.4			SEPT.		I
	Oct.			1	Oct	l l	1
	Nov.	1	1		Nov.	1	1
	DEC.	4	1	11	DEC.		1
					*		

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 893.		d. h. m.	d. h. m.	A.D. 896.		d. h. m.	d. h. m.
G.	0	6 14 32	6 7 5	D.C. March.	JAN	19 0 5	1
	JAN	121 8 54	21 21 33	d. h. m.	FEB	17 12 49	17 11 56
March.	FEB	19 21 39	20 10 14	15 22 49	MAR.	18 1 88	18 8 89
$egin{array}{c cccc} d. & h. & m. \\ 16 & 5 & 22 \\ \end{array}$	MAR.	21 10 23	21 20 20		APRIL	16 14 17	17 0 87
10 5 22	APRIL	19 23 7	20 4 25		0	<b>1</b> 8 39	1 8 89
	MAY .	19 11 51	19 11 26		MAY.	16 8 1	16 14 10
		18 0 35	17 18 24		JUNE .	14 15 45	15 1 15
	JUNE .	( 2 18 57	3 1 30		JULY.	14 4 29	14 10 29
	0	17 13 19	17 2 23		Aug	12 17 13	12 18 48
	JULY.		15 13 28		SEPT	11 5 57	11 8 10
	Aug.				Oct.	C10 18 41	10 12 22
1	SEPT	14 14 47			0	25 18 8	25 15 18
	Oct	14, 3 31	13 17 30		Nov.	9 7 25	8 22 57
	Nov	12 16 15	12 11 58			8 20 9	8 11 9
	DEC	12 4 59	12 7 31		DEC	8 20 3	
	0	126 23 21	26 20 29	897.	JAN	7 8 53	7 1 0
	_	10 15 10	11 0 07	в.	FEB.	5 21 37	5 16 20
894.	JAN	10 17 43	11 2 27	16 4 38	MAR.	7 10 21	7 8 41
F.	FEB	9 6 27	9 19 18		APRIL	6 5 28 5	6 1 20
16 11 11	MAR.	10 19 11	11 9 11		0	120 17 27	20 19 56
1	APRIL	9 7 55	1 - 1		MAY,	5 11 49	5 17 26
	MAY .	· ·	1		June .	4 0 88	4 8 12
	June .	1 4			JULY.	8 13 17	8 21 11
ļ	0	122 3 4		ŀ	0022	(221	2 8 81
ŀ	JULY	. 6 22 7	1		Aug	81 14 45	
1	A.ug.	. 5 10 5	L 5 1 36		SEPT.	00 0 00	80 4 82
	SEPT.	. 3 23 3	5 3 10 47			(14 21 51	
	Oct.	. 3 12 1	9 2 22 34		Oct.	29 16 18	
	Nov.	. 2 1	3 1 13 21	1	Nov.	28 4 57	
		1 13 4	7 1 6 48			27 17 41	
	DEC.	0   } 16 8	9 16 12 14		DEC.		
		(81 2 8	1 31 1 55	898.	JAN.	. 26 6 26	1
				A.	FEB.	. 24 19 10	1
895.	JAN.	- 1	-	16 10 27	MAR.	. 26 7 54	
E.	FEB.	l l	0 28 14 53		0	s 10 2 10	6 10 12 82
16 17	0 MAR.	1	1		APRIL	. \\24 20 8	8 24 18 2
	APRI	1	1		MAY	. 24 9 29	2 24 9 28
	MAY	. 27 18 1	.2 28 3 36		JUNE	. 22 22	3 28 0 44
	JUNE	26 6 5	66   26 11 21		JULY	. 22 10 5	0 22 15 28
	July	7. 25 19	40   25 <b>18</b> 28		Aug.		4 21 5 10
	Aug.	24 8 9	24 24 2 1	.	SEPT.		
	SEPT	22 21	8 22 10 55	.	0	(4 6 4	
	Ост.	. 22 9	52 21 21 52	3	Ocr.	. \\19 1	2 19 5 86
	Nov	20 22	86 20 11 16	3	Nov.	. 17 13 4	
	DEC	. 20 11	20 20 3 4	L	DEC.	. 17 2 8	
					2.00		
<del></del>							

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Eci.)
A.D. 899.		d. h. m.	d. h. m.	A.D. 902.		d. h. m.	d. h. m.
3. (1.	JAN	15 15 15	15 14 38	C.	Jan	12 6 25	12 18 21
March. d. h. m.	FEB	14 8 59	14 1 11	March.	FEB	10 19 9	11 8 22
16 16 15	MAR	15 16 43	15 11 50	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MAR.	12 7 53	12 19 36
	APRIL	14 5 27	13 23 7		APRIL	10 20 37	11 4 28
	MAY.	13 18 11	13 11 34		MAY.	10 9 21	10 11 48
	June .	12 6 55	12 1 28		June .	8 22 5	8 18 35
	July .	11 19 39	11 16 37		JULY.	8 10 49	8 1 52
	Aug	(10 8 23	10 8 31		Aug	6 23 33	6 10 49
	0	25 2 45	24 17 44		SEPT	5 12 17	4 22 23
	SEPT	8 21 7	9 0 24		Ост	5 1 1	4 12 57
1	Ocr	8 9 51	8 15 38		Nov	3 13 45	3 6 25
	Nov	6 22 85	7 5 48		DEC	(3 2 29	3 1 41
•	DEC	6 11 19	6 18 46		0	(17 20 51	17 19 29
900.	JAN	5 0 8	5 6 28	903.	JAN	( 1 15 13	1 21 10
F.E.	FEB.	( 3 12 47	<b>3</b> 16 56	в.	DAM	(31 3 57	31 15 11
*	0	18 7 9	18 12 34		FEB	•••	•••
15 22 4	MAR.	4 1 31	4 2 21	16 15 31	MAR	§ 1 16 41	2 6 33
1	APRIL	2 11 15	2 11 19		1122111	31 5 25	31 18 48
		(2 2 50	1 20 26		APRIL	29 18 9	30 4 18
	MAY .	81 15 48	81 6 88		MAY .	29 6 53	29 11 52
	JUNE .	80 4 27	29 18 41		0	§13 1 15	12 22 46
	Juny .	29 17 11	29 8 54		JUNE .	(27 19 37	27 18 34
	0	(18 11 88	13 10 80		July.	27 8 21	27 1 32
i	Aug	28 5 55	28 1 7		Aug	25 21 5	25 9 49
1	SEPT	26 18 89	26 18 30		SEPT	24 9 49	23 20 18
Ī	Our	23 7 28	26 12 1		Oct	23 22 33	23 9 39
1	Nov	21 20 7	25 4 81		Nov	22 11 17	22 1 52 7 11 3
	DEC	24 8 51	21 19 25		DEC.	$\begin{cases} 7 & 5 & 39 \\ 22 & 0 & 1 \end{cases}$	21 20 16
901.	JAN	22 21 86	28 8 9	904.	JAN.	20 12 46	20 15 32
D.	0	6 15 58	6 12 85	A.G.	FEB	19 1 30	19 10 3
	FEB	21 10 20	21 18 48	15 21 20	MAR	19 14 14	20 2 30
16 8 58	MAR.	22 23 4	28 8 40		APRIL	18 2 58	18 16 2
	APRIL	21 11 48	21 11 29		MAY .	17 15 42	18 2 45
	MAY .	21 0 82	20 19 3		0	1 10 4	1 1 40
	June .	19 18 16	19 8 26		June .	16 4 26	
	July.	19 2 0			July.	15 17 10	
	0	2 20 22			Aug.	14 5 54	
	Aug	17 14 44			SEPT		
	SEPT	1	l .		Oct		
	Ocr	1			Nov		
	Nov.	1	I.		0	25 14 28	
	DEC	18 17 40	14 1 40		DEC	10 8 50	9 23 6
1		1	1	11	1	1	

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 905.		d. h. m.	d. h. m.	A.D. 908.		d. h. m.	d. h. m.
March.	JAN	8 21 35	8 15 46	March.	Jan	6 12 44	6 13 45
d. h. m.	Feb	7 10 19	7 9 37	d. h. m.	Feb	5 1 28	5 0 13
16 8 8	MAR	8 23 3	9 3 35	15 20 35	Mar	5 14 12	5 10 30
	APRIL	7 11 47	7 20 23		0	\20 8 <b>34</b>	20 22 10
	MAY .	7 0 31	7 11 7		APRIL	4 2 56	3 21 7
1	0	21 18 53	21 11 36		MAY .	3 15 40	3 8 40
	June .	5 13 15	5 23 27		June .	2 4 24	1 21 38
	JULY.	5 1 59	5 9 39		Ψ	(1178	1 12 9
	Aug	3 14 43	3 18 29		July.	(81 5 52	31 3 50
	SEPT	2 3 27	2 2 55		Aug	29 18 36	29 20 2
	_	(1 16 11	<b>1 11 4</b> 9		0	(13 12 58	13 2 14
	Oct	31 4 55	30 21 49		SEPT	{28 7 20	28 11 57
	Nov	29 17 39	29 9 14		Ocr	27 20 4	28 2 58
	DEC	29 6 23	28 22 11		Nov	26 8 48	26 16 47
					DEC	25 21 32	26 5 11
906.	JAN	27 19 7	27 12 36	909.	JAN	24 10 17	24 16 13
E.	FEB	26 7 51	26 4 14	A.	FEB	22 23 1	23 2 0
16 8 57	MAR	27 20 35	27 20 33	16 2 24	MAR.	24 11 45	24 10 54
	APRIL	26 9 19	26 12 51	10 2 24	APRIL	23 0 29	22 19 34
	MAY .	25 22 3	26 4 18	l	MAY.	22 13 13	22 4 55
	June .	24 10 47	24 18 16		JUNE.	21 1 57	20 15 48
ŀ	JULY .	23 23 31	24 6 35		JULY.	20 14 41	20 4 53
1	Aug	22 12 15	22 17 31		Aug.	19 3 25	18 20 15
	SEPT	21 0 59	21 3 43			( 2 21 47	2 18 29
	Oct	20 13 43	20 13 48		SEPT	17 16 9	17 13 21
	Nov	19 2 27	19 0 14		Oct.	17 4 53	17 7 11
	DEC	18 15 11	18 11 11		Nov.	15 17 37	16 0 34
					DEC.	15 6 21	15 16 80
907.	JAN.	17 3 56	16 22 44		DEC	10 0 21	10 10 00
D.	FEB.	17 10 10	15 10 55	0.15	<b>T</b> .	10 10 0	14 0 00
16 14 46	MAR.	1	16 23 59	910. G.	JAN	13 19 6	14 6 28
10 11 10	0	31 23 46	( 1 11 52		FEB.	12 7 50	12 17 58
	APRIL	15 18 8	15 14 1	16 8 13	MAR	13 20 34	14 8 81
	MAY .	15 6 52	15 4 57		APRIL	12 9 18	12 11 35
	June .	. 13 19 36	13 20 19		MAY.	11 22 2	11 18 59
	JULY	. 13 8 20	13 11 31		JUNE .	10 10 46	.10 2 48
	Aug.	L .	12 1 59		JULY.	9 23 30	
	SEPT.	. (10 9 48	1		0	24 17 52	i .
	0	25 4 10	1		Aug	8 12 14	7 23 21
	Ocr.	1 -	l .		SEPT	7 0 58	6 13 45
	Nov.	. 8 11 16			Oct.	6 13 42	1
	Dec.		l .		Nov.		1
					DEC.	4 15 10	4 20 37
	1	1		<u>II </u>			<u> </u>

	77	ATTE LINE			
Mean Vortui Equals &	Month, Moon, Moon, C Full Ecl.)	Mean Vernal Equinox,	Month.	Mean New Moon. (*) Full Ecl.)	True New Moon. O Full Ecl.)
A.D. 911.	d. h. m. d. h. m. Jan 3 3 54 3 14 25	A.D. 914. II.	Jan.	d. h. m. 29 7 48	d. h. m. 29 4 32
March, J. h. m.	Fig. 1 16 38 2 5 40	March. d. h. m. 16 7 27	Pen Mar	27 20 82 29 9 16	27 22 21 29 15 41
10 11 1	Man.		APRIL O May .	27 22 0	28 7 25 12 11 8 27 20 59
	JUNE 2 18 18 29 1 47 14 2 40 14 8 14		JUNE. JULY. Aug	25 23 28 25 12 12 24 0 56	26 8 16 25 17 52 24 2 86
1	Ara., 27 9 46 26 19 58 Secr., 25 22 80 25 9 6		Sepr Our	22 18 40 22 2 21 ( 5 20 46	22 11 24 21 20 58 5 23 8
1	Oct 25 H 14 25 1 17 Nov 23 23 58 23 19 52 Dec 23 12 42 23 15 28		Nov DEC	(20 15 8 20 8 52	20 7 45 19 19 52
912. s.u.	Jan. 122 1 27 22 10 21	915. A. 16 18 16	Jan Fen Mar	18 16 87 17 5 21 18 18 5	18 9 24 17 0 12 18 15 58
15 19 50	MAR. 20 14 11 21 8 9 MAR. 21 2 55 21 16 58 Armi: 19 15 19 20 8 87		APRIL O MAY.	17 6 49 ( 2 1 11 ( 16 19 88	17 8 9 2 8 35 17 0 0
	Max . 19 4 23 19 11 58 June . 17 17 7 17 18 69 . 2 11 20 2 9 40		JUNE. JULY. Aug	15 8 17 14 21 1 18 9 45	15 14 47 15 4 5 18 15 58
· ·	July (17 5 51 17 1 44 Ata. 15 18 85 15 9 19 Shert 11 7 19 18 18 42		Sept Oct	11 22 29 (11 11 18 {26 5 85	12 2 88 11 12 59 25 22 20
• the	Oct. , 13 20 8 18 6 40 Nov. , 12 8 47 11 21 82 Dec. , (11 21 81 11 14 56		Nov Dec	9 28 57 9 12 41	9 28 28 9 10 8
913.	3 26 15 58 26 21 11 Jan. 10 10 16 10 9 51	916. u.e. 15 19 5	Jan Fen Mar	8 1 26 6 14 10 7 2 54	7 21 19 6 8 56 6 21 14
16 1 199	FEB. 8 28 0 9 4 49 MAR. 10 11 44 10 22 18 APRIL 9 0 28 9 18 14		APRIL O MAY .	5 15 88 20 10 0 5 4 22	20 20 11 5 0 44
	May , 8 18 12 9 1 18 June 7 1 56 7 10 50 July 6 14 40 6 18 47		JULY	3 5 50 ( 1 18 84	1 22 18
	Ato. 5 8 21 5 2 8 Sect. 8 10 8 8 10 1 Oct. 8 4 52 2 19 18	1	Aug.	(81 7 18	81 12 82 80 1 47
	Nov. 1 17 30 (1 6 28 1 6 20 1 1 6 20 1 1 1 1 47 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Oct. Nov. Dic.	. {20 8 40 . 27 21 80	29 14 9 28 1 48
		1	1		

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 917.	Jan	d. h. m. 25 22 58	d. h. m. 25 23 23	A.D. 920.	Jan	d. h. m.	d. h. m.
March.	FEB	24 11 42	24 9 30	March.			
d. h. m. 16 0 54	MAR.	26 0 26		d. $h.$ $m.$	Feb	22 2 52	22 16 30
10 001			25 19 37	15 18 20	MAR	22 15 36	23 3 32
] . [	APRIL	24 13 10	24 6 21		APRIL	21 4 20	21 12 11
	MAY.	24 1 54	23 18 21	1	MAY .	20 17 4	20 19 19
	June .	22 14 38	22 7 59		June .	19 5 48	19 1 59
	JULY.	22 3 22	21 23 11		JULY.	18 18 32	18 9 17
	Aug	20 16 6	20 15 28		Aug	17 7 16	16 18 19
	Sept	19 4 50	19 7 47		SEPT	15 20 0	15 6 0
1	Oct	18 17 34	19 23 37		Oct	15 8 44	14 20 45
	Nov	17 6 18	17 14 18		Nov	13 21 28	13 14 18
	DEC	16 19 2	17 3 33		DEC	(13 10 12	13 9 88
					0	28 4 34	28 4 25
918.	JAN	15 7 47	15 15 16	92 i.	JAN	11 22 57	12 5 5
D.	FEB	£13 20 31	14 1 31	G.	FEB.	10 11 41	10 23 1
1	0	28 14 53	28 20 0	16 0 9	MAR.	12 0 25	12 14 14
16 6 48	MAR	15 9 15	15 10 36	10 0 5	APRIL	10 13 9	11 2 21
	APRIL	13 21 59	13 19 4		MAY.	10 1 53	10 11 45
	MAY .	13 10 43	13 3 44			(814 37	8 19 17
	June .	11 23 27	11 13 35		June.	23 8 59	23 5 12
	JULY.	11 12 11	11 1 27			8 3 21	8 2 3
	Aug	∫10 0 55	9 15 44		JULY.	1	6 9 12
	0	24 19 17	24 18 23		Aug Sept	6 16 5 5 4 49	4 17 42
	SEPT	8 13 39	8 8 12			4 17 33	4 4 26
1	Ocr	8 2 23	8 2 0		Oct		
	Nov	6 15 7	6 19 59		Nov.		
	Dec	6 3 51	6 12 58		DEC	$\left\{ egin{array}{cccc} 2 & 19 & 1 \ 17 & 13 & 23 \end{array}  ight.$	
					0	17 13 23	17 19 57
919.	JAN	4 16 36	5 4 0	922.	JAN	$\int 1 745$	1 4 18
C.	FEB	( 3 5 20	3.16 42	F.	OAM.	\80 20 29	80 23 16
	0	17 23 42	17 20 18		FEB		•••
16 12 32	MAR.	4 18 4	5 3 5	16 5 58	MAR.	$\int 1 9 13$	1 17 30
	APRIL	3 6 48	3 11 40		wan.	130 21 57	31 9 42
	MAY .	2 19 32	2 19 7		APRIL	29 10 41	29 23 9
	7	(1 8 16	1 2 25		MAY.	28 23 25	29 9 54
	JUNE .	30 21 0	30 10 39		_ 0	<i>{</i> 12 17 47	12 8 26
	JULY .	30 9 44	29 20 51		June.	127 12 9	27 18 86
	0	f14 4 6	14 9 25		JULY.	27 0 53	27 2 14
	Aug	28 22 28	28 9 48	`	Aug	25 13 37	25 9 55
	SEPT	27 11 12	27 1 42		SEPT.	$24 \cdot 2 \cdot 21$	23 18 32
	Oct	26 23 56	26 19 54		Ост	23 15 5	23 4 49
	Nov	25 12 40	25 15 8		Nov	22 - 3 + 49	21 17 6
	DEC	25 1 24	25 9 50		_ 0	$\begin{cases} 6 22 11 \end{cases}$	7 7 41
1					DEC	<sup>1</sup> 21 16 33	21 7 32
				1			

			RUSALEM C	TVIL TIME.			
Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	I'rue New Moon. ) Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	Trne New Moon. Full Ecl.)
A.D. 923. E. March.	JAN FEB		d. h. m. 19 23 49 18 17 12	A.D. 926. A. March.	JAN FEB		d. h. m. 16 22 36 15 8 44
d. h. m. 16 11 47	MAR April	20 6 46 18 19 30	20 10 42 19 3 13	d. h. m. 16 5 14	MAR.	16 21 56 31 16 18	16 18 32 1 5 33
	MAY .   O June .	ſ 2 2 36	18 17 51 1 18 50 17 6 20		APRIL MAY. June.	15 10 40 \\ 14 23 24 \\ 13 12 8	15     4     35       14     15     39       13     4     16
	July . Aug Sept	16 9 42 14 22 26 13 11 10	16 16 50   15 2 6   13 11 1		JULY . Aug Sept	13 0 52 11 13 36 (10 2 20	12 18 42 11 10 35 10 3 12
	Oct Nov Dec	12 23 54 11 12 38 11 <b>1</b> 22	12 20 21 11 6 36 10 18 3		OCT Nov	24 20 42 9 15 4 8 3 48	24 10 26 9 19 41 8 11 17
924.	JAN	9 14 7	9 6 46		DEC	7 16 32	8 1 28
p.c. 15 17 86	FEB MAR APRIL	8 2 51 8 15 35 7 4 19	7 20 42 8 11 44 7 3 31	927. G. 16 11 2	JAN FEB MAR	6 5 16 4 18 0 6 6 45	6 14 0 5 0 53 6 10 20
	MAY. June.	6 17 B 5 5 47	6 19 27 5 10 49		APRIL MAY . June .	4 19 29 4 8 13 2 20 57	4 18 48 4 3 3 2 12 1
	Aug Sept	4 18 31 3 7 15 1 19 59	5 1 0 3 13 44 2 1 13		July .	$ \begin{cases} 2 & 9 & 41 \\ 31 & 22 & 25 \\ 30 & 11 & 9 \end{cases} $	1 22 41 31 11 44 30 3 15
	Oct	$ \begin{cases} 1 & 8 & 43 \\ 80 & 21 & 27 \\ 29 & 10 & 11 \end{cases} $	1 11 58 30 22 31 29 9 11		O Sept	$ \begin{cases} 14 & 5 & 31 \\ 28 & 23 & 53 \\ 28 & 12 & 37 \end{cases} $	14 2 38 28 20 41 28 14 57
	DEC.		28 20 7		Nov Dec		27 8 46 27 1 0
925. n. 15 28 25	JAN FEB MAR	. 26 0 23	27 7 20 25 19 1 27 7 27	928. F.E.	JAN.	00 00	25 14 53 24 2 19
	APRIL MAY	1 7	11 19 81 25 20 55 25 11 27	15 16 51	Mar. April May	22,17 1	24 11 34 22 19 19 22 2 25
	June July Aug.	. 24 8 19 . 28 16 8	21 2 45 23 18 10 22 9 5		June July	. 20 18 29	20 9 57 19 19 1 4 7 59
	SEPT.	. 20 17 31 5 11 53	20 23 9 4 22 11	.	Aug. Sept.	. 18 19 57	18 6 31 16 21 5
	Nov. Dec.	. \ \ \ 20 \ 6 \ 15 \ \ 18 \ 18 \ 59 \ \ . \ \ \ 18 \ 7 \ 43	19 0 26	i	Nov. Dec.	1 0	15 9 24
						1	<u> </u>

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 929.		d. h. m.	d. h. m.	A.D. 932.		d. h. m.	d. h. m.
D.	JAN	(13 11 38	13 22 36	A.G.	JAN	11 2 48	10 19 37
	0	23 6 0	28 0 8	March.	FEB.	9 15 32	9 12 19
March.	FEB	12 0 22	12 13 57	d. h. m.	MAR.	10 4 16	10 5 38
d. h. m. 15 22 40	MAR.	13 13 6	14 2 20	15 16 7	l	8 17 0	8 22 34
10 22 10	APRIL	12 1 50	12 11 58		APRIL		
	MAY .	11 14 34	11 19 39		MAY.		8 14 9
	JUNE.	10 3 18	10 2 22		0	(28 0 6	22 18 25
		i .	9 9 12		JUNE.	6 18 28	7 8 47
	JULY.	]			JULY.	6 7 12	6 15 20
	0	(24 10 24	24 15 0		Aug	4 19 56	5 1 19
	Aug	8 4 46	7 17 18		SEPT	3 8 40	3 10 32
	SEPT	6 17 30	6 3 38		Oct	2 21 24	2 19 48
1	Oct	6 6 14	5 16 54			(1108	1 5 43
	Nov	4 18 58	4 9 13		Nov. O	316 4 30	16 6 59
	Dec	4 7 42	4 3 50			(30 22 52	30 16 86
930.	JAN	( 2 20 27	2 23 26		DEC	30 11 36	30 4 86
c.		17 14 49	1	933.	JAN	29 0 21	28 17 45
	O Feb	'	17 14 14	F.	FEB	27 18 5	27 7 58
16 4 29		1 9 11	1 18 15	15 21 55	MAR.	29 1 49	28 28 8
10 4 29	MAR	2 21 55	$\begin{bmatrix} 3 & 10 & 49 \\ 2 & 0 & 25 \end{bmatrix}$	-0 <b>-1</b> 00	APRIL	27 14 88	27 14 51
	APRIL	30 23 23			O	(12 8 55	12 11 10
•	MAY .		$\begin{cases} 1 & 11 & 2 \\ 20 & 10 & 20 \end{cases}$		MAY.	27 3 17	27 6 80
	_		130 19 23		June .	25 16 1	25 21 28
	JUNE.	29 0 51 (13 19 13	29 2 25		JULY.	25 4 45	25 11 1
	O July.	131913	13 16 11		Aug.	28 17 29	28 28 21
	Aug.	27 2 19	28 9 20		SEPT.	22 6 13	22 10 42
	SEPT.	25 15 3	26 17 10 25 2 49		Oct	21 18 57	21 21 82
	Oct.	25 3 47			0	( 5 18 19	5 6 11
	Nov.	23 16 31	24 14 57 23 5 49		Nov.	20 7 41	20 8 17
	Dec.	23 10 51			DEC.	19 20 25	19 19 6
1	DE0	20 0 10	22 23 4				10 10 0
1	0	( 6 23 37	7 6 4	934. E.	Jan	18 9 9	18 6 8
931.	JAN	(21 17 59	21 17 41		FEB	16 21 53	16 17 15
В.	FEB	20 6 43	20 12 18	16 3 44	MAR.	18 10 37	18 4 58
16 10 18	MAR	21 19 27	22 5 31		APRIL	16 23 21	16 17 86
	APRIL	20 8 11	20 20 19		_ 0	§ 1 17 48	2 8 42
	MAY.	19 20 55	20 8 22		MAY .	(16 12 5	16 7 28
	JUNE.	18 9 39	18 18 1		June.	15 0 49	14 22 17
	JULY.	17 22 23	18 2 12		July.	14 13 33	14 13 46
	Aug	16 11 7	16 9 55		Aug	13 2 17	18 5 11
	SEPT	14 23 51	14 18 9		SEPT	11 15 1	11 19 59
	Ост	14 12 35	14 3 41		Ocr	§11 3 45	11 9 51
	Nov	13 1 19	12 15 1		0	25 22 7	25 9 20
	DEC	12 14 3	12 4 21		Nov	9 16 29	9 22 45
					DEC	9 5 13	9 10 42
			<u> </u>			1	

v	Mean formal juinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Moan Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	Frue New Moon. Full Ecl.)
N 22 16	A.D. 935. p. Iarch.	JAN FEB APRIL MAY . JUNE . JULY . AUG SEPT OCT NOV DEC  JAN. FEB C MAR. APRIL MAY JUNE JULY AUG. OCT. NOV. DEC	Moon. (O Full Ecl.) (o  d. h. m.  7 17 58 6 6 42 7 19 26 6 8 10 5 20 54 4 9 38 3 22 22 { 2 11 6	Moon.  Moon.  Juli Ecl.)  d. h. m.  7 21 47 6 8 8 7 17 41 6 3 20 5 18 32 4 1 8 8 14 35 2 5 51 81 22 22 80 15 17 80 7 42 28 22 51 28 12 20 26 28 59 25 9 58 11 8 14 25 18 89 21 2 0 81 21 8 19 21 20 81 21 8 19 21 20 81 21 8 19 21 20 81 21 8 19 31 10 59 31 10 11 31 11 31 12 28 31 15 12 31 16 21 16 31 17 4 11 31 18 19 8 31 17 4 11 31 18 19 8 31 17 15 11 1 31 18 19 8 31 10 17 5	Vernal Equinox.  A.D. 938. G.  March. d. h. m. 16 3 0  939. F. 16 8 48  16 8 48  15 14 14  16 15 14 15	JAN FEB O O O O O O	Moon.  d. h. m.  4 9 8 { 2 21 52 { 17 16 14  4 10 36  2 23 20  2 12 4 { 1 0 48  30 13 32  30 2 16  28 15 0  27 3 44  26 16 28  25 5 12  24 17 56 { 8 12 18  23 6 40  21 19 24  23 8 8  21 20 52  21 9 36  19 22 20	Moon.  d. h. m.  4 17 58 3 10 41 17 10 32 5 0 29 3 11 20 2 19 48 1 2 47 30 9 26 29 16 49 28 1 59 26 13 49 26 4 42 24 22 20 24 17 37 8 18 21 28 12 56 22 6 41 23 21 44 22 9 45 21 19 4 20 2 39 4 11 41 19 9 36 17 16 59 16 1 46 15 12 41 14 2 18 13 18 18 3 29 4 48 0 12 12 12 16 3 11 6 53 7 10 6 10 9 8 17 1 11 22 15 15 3 8 1 55 7 6 9 58
		Oer. Oer. Nov Dec	7 18 1	11 7 17 1 55 7 9 3 89 6 8 9	0 10 18 89 8	SEP OCT NOV	4 10 7 2 22 4 2 11 3	5 4 2 56 19 2 13 26 33 2 1 46

Vernal Equinox.   Month.   Moon.   O Full Eel.   O Full	d. h. m.  3 7 24  3 17 9  7 2 27  1 12 46  5 12 0  4 22 85  3 10 57
Equinox.   (O Full Ecl.)   (	### Hol.)  ### A. M. m.  ### 3 17 9  ### 7 2 27  ### 12 46  ## 5 12 0  ## 22 85  ## 3 10 57
A.D. 941.  C. JAN   \begin{cases}     d. h. m. & d. h. m. & A.D. 944. & G.F. March. d. h. m. & G.F. March. d. h	d. h. m.  3 7 24  3 17 9  7 2 27  1 12 46  5 12 0  4 22 85  3 10 57
941. C.  JAN \begin{cases} \begin{array}{cccccccccccccccccccccccccccccccccccc	3 7 24 3 17 9 7 2 27 1 12 46 5 12 0 1 22 85 3 10 57
941. C.  JAN \begin{cases} \begin{array}{cccccccccccccccccccccccccccccccccccc	3 7 24 3 17 9 7 2 27 1 12 46 5 12 0 1 22 85 3 10 57
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 17 9 7 2 27 L 12 46 5 12 0 1 22 85 3 10 57
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7 2 27 1 12 46 5 12 0 1 1 22 85 3 10 57
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 12 46 5 12 0 1 22 85 3 10 57
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 12 46 5 12 0 1 22 85 3 10 57
15 20 26   Mar.   (30 14 80   30 17 41     APRIL   (25 18 24   25   May   29   8 14   29   9 55   May   28 15 58   29   0 34   June   23 19 52   25   June   27   4 42   27   13 15   July   26 17 26   27   0 7   Sept.   20 10   4   20   20   20   20   20   20   20	5 12 0 1 22 85 3 10 57
APRIL 29 8 14 29 9 55 MAY . 25 7 8 2  MAY . 28 15 58 29 0 84 June . 23 19 52 25  O JUNE . 27 4 42 27 13 15  JULY . 26 17 26 27 0 7  MAY . 25 7 8 2  JULY . 23 8 86 25  AUG . 21 21 20 21  SEPT . 20 10 4 20	1 22 85 3 10 57
MAY . 28 15 58 29 0 84	3 10 57
O     \$\begin{array}{c ccccccccccccccccccccccccccccccccccc	
June     27     4     42     27     18     15     Aug.     21     21     20     21       July     26     17     26     27     0     7     Sept.     20     10     4     20	5 J. ZU.
July . 26 17 26 27 0 7 SEPT 20 10 4 20	
	17 26
$ A_{TTG}  =  25  6  10   25  9  51                                    $	10 81
	18 48
SEPT. 23 18 54 23 19 16 OCT. 119 22 48 20	
Oct   23 7 38   23 5 0   Nov   18 11 32   18	3 19 89
Nov   21 20 22   21 15 29   Dec   18 0 16   18	3 10 10
Dec. ,   21 9 6   21 2 54	
542. JAN 10 21 00 19 10 17	3 22 45
B.   FEB   18 10 34   18 4 42   E.   FEB   15 1 44   15	
16 2 15   Mar.   19 23 18   19 19 6   15 19 41   Mar.   16 14 28   16	3 18 81
APRIL 18 12 2 18 10 21 APRIL 15 8 12 15	5 2 85
MAY . 18 0 46 18 1 59 MAY . 14 15 56 14	10 26
June .   16 13 30   16 17 19   June .   18 4 40   19	2 19 6
July . 16 2 14 16 7 44 July . 12 17 24 19	5 87
	18 89
SEPT. 13 3 42 13 9 .1 SEPT. ( 9 18 52 S	10 20
Oct 12 16 26 12 20 20 0 24 18 14 25	10 54
Nov 11 5 10 11 7 18 Oct 9 7 86 8	4 8
DEC 10 17 54 10 18 9 Nov 7 20 20 7	-
DEC. 7 9 4 7	
943. Jan 9 6 39 9 5 0	
A.   Feb   7 19 23   7 15 52	
16 8 4 Mar., 9 8 7 9 3 0 946. Jan. 5 21 49 6	9 25
APRIL ( 7 20 51 7 14 49 D. Feb 4 10 88 4	28 18
0 22 15 13 23 3 3 16 1 30 MAR. 5 28 17 6	
May . 7 9 35 7 3 46 APRIL 4 12 1 4	
June. 5 22 19 5 17 59 May. 4 0 45 4	
July . 5 11 3 5 9 13 June . 2 18 29 2	
Aug. 3 23 47 4 0 58 - ( 2 2 18 1	
July . Set at a set	
37 100 - 1 1 1 1 1 1 1 1 1	-
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
DEC 29 15 27 29 20 48 DEC 26 6 87 26	12 44

				<del></del>		<del></del>	
Mean			True New	Mean		Mean New	True New
Vernal Equinox.	Month.	Moon.	Moon.	Vernal Equinox.	Month.	Moon. (O Full Ecl.) (	Moon.
	***************************************	(0 1 411 2011)		24		(0 )	
A.D.		J 7. m	1 1 m	A.D.		d. h. m.	d. h. m.
947.		d. h. m.	d. h. m.	950.		Co. 11. 111.	
C.	JAN	24 19 21	25 6 40	F. Manab	JAN	21 10 31	21 3 48
70	0	(8 13 43	8 8 31	March. d. h. m.	FEB	19. 23 15	19 19 58
March.	FEB	23 8 5	23 21 55	16 0 45	MAR	21 11 59	21 12 45
16 7 19	MAR.	24.20 49	25 10 7		APRIL	20 0 43	20 5 19
	APRIL	23 9 33	23 19 35		MAY .	19 13 27	19 20 47
1	MAY.	22 22 17	23 3 7		0	(3 7 49	3 1 45
	JUNE .	21 11 1	21 9 47		JUNE.	(18 2 11	18 10 31
	July.	20 23 45.	20 16 42		JULY.	17 14 55	17 22 24
		(4187	4 21 50		Aug.	16 3 39	16 8 52
	Aug.	19 12 29	19 0 56		SEPT.	14 16 23	14 18 35
		18 1 13	17 11 27		Oct.	14. 5 7	14 4 18
	SEPT.	17 13 57	17 0 53		Nov.	(12 17 51	12 14 32
	Oct	1 1	15 17 15		0	27 12 13	27 14 56
	Nov.	16, 2 41			_	12 6 35	12 1 31
	DEC	15 15 25	15 11 52		DEC	12 0 55	12 101
948.	-	c14 4 10	14 7 18	951.	JAN	10 19 20	10 13 19
B.A.	JAN.	14 4 10	14 ·7 18 28 22 58	E.	FEB	984	9 1 59
	_ 0	28 22 32		16 6 34	MAR.	10 20 48	10 15 35
	FEB	12 16 54	13 1 55	20 002	APRIL	9 9 32	9 6 10
15 13 8	MAR.		13 18 20	1	MAY .	(8 22 16	8 21 28
	APRIL		12 7 46		0	23 16 38	23 18 40
	MAY	1	11 18 20		JUNE.	7 11 0	7 12 57
	JUNE	1	10 2 41		July .	6 23 44	7 3 58
1	July		9 9 54		Aug.	7 40 00	5 18 1
	0	24 2 56	1	ll.	SEPT.		4 6 54
	Aug.	. 7 21 18	7 17 3	N.	Ocr.	3 13 56	3 18 50
	SEPT.	. 6 10 2	6 1 9		1	2 2 40	1
	Our.	5 22 46	5 11 4		Nov.	$\{16\ 21\ 2$	
	Nov.	. 4 11 80	3 23 20		0	(1 15 24	
	DEC.	. 4 0 14	3 14 9	H	DEC.	12 .	1 1
				\\		.   (31 4 8	
949.	JAN.	. 5 2 12 59	1	11 952.	JAN.		
a.	0	17. 7 2:	1 17 14 58	D.C.	FEB.		
	FEB.	1. 1 48	1 1 20	15 12 25	MAR.	. 28 18 21	1
15 18 5	7 MAR.	. 2 14 27	7 2 19 40		APRI	L 27 7 5	27 0 39
		(1 31	1 1 12 36	3	1 0	(12 1 2	7 12 11 8
	APRI	L 80 15 5	5 (1 8 1	7	MAY	. {26 19 4	9 26 14 2
	MAY	. 80 4 39	. 11		June	0.00	3 25 4 45
	Junu			. 11	July	0.01.11	7 24 20 20
	JULY	25.0	7 28 9 4	3	Aug.	1 00 40	1 23 12 11
	Aug	00 40 5			SEPT.		5 22 3 35
	SEPT			11	OCT.	21.11 2	1
	-	2.004		11		(5 5 5	
	Ocr.		3 22 23 4	11	Nov.	3.00	
	Nov.			11	DEC.		
	DEC.				DEC.	.	
1	1	• 1	1	11			

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 953.		d. h. m.	d. h. m.	A.D. 956.		d. h. m.	d. h. m.
B. March.	JAN	18 1 41	18 6 38	F.E.	JAN	15 16 51	16 1 59
d. h. m.	FEB	16 14 25	16 16 36	3.5	FEB	(14 5 85	14 18 37
15 18 12	MAR	18 3 9	18 1 50	March. $d. h. m.$	0	28 23 57	28 18 85
	APRIL	16 15 53	16 10 54	15 11 38	MAR	14 18 19	15 8 17
	MAY .	16 4 37	<b>15</b> 20 <b>3</b> 9		APRIL	13 7 3	13 18 57
	JUNE .	14 17 21	14 7 54		MAY .	12 19 47	13 3 16
	JULY.	14 6 5	13 21 13		June .	11 8 31	11 10 12
1	Aug	12 18 49	12 12 34		JULY .	10 21 15	10 16 54
	SEPT	11 7 33	11 5 27		Aug.	9 9 59	9 0 25
	Oct	10 20 17	10 22 55		SEPT	7 22 43	7 9 48
	Nov	9 9 1	9 15 50		Ост	7 11 27	6 21 48
	DEC	8 21 45	9 7 23		Nov	6 0 11	5 12 46
					DEC	5 12 55	5 6 28
954.	Jan.	7 10 30	7 21 2		220. 1		
A.	FEB.	5 23 14	6 8 36	957.	JAN	(4 1 40	4 1 32
16 0 1		7 11 58	7 18 17	D.	0	{18 20 2	18 22 18
10 0 1	Mar	$\begin{cases} 22 & 6 & 20 \end{cases}$	22 10 21		FEB	2 14 24	2 20 89
	APRIL	6 0 42	6 2 34	15 17 27	Mar	4 8 8	4 14 12
	MAY .	5 13 26	. [1		APRIL	2 15 52	8 5 5
1	JUNE .	4 2 10	5 10 14 3 18 13			(2 4 86	2 17 0
		3 14 54	3 3 36		MAY .	81 17 20	(1 2 22
	July.	(2 3 38	1 15 18		JUNE .	30 6 4	80 10 4
	Aug	31 16 22			JULY.	29 18 48	29 17 14
	_	(15 10 44	31 5 45 15 10 29		Aug	28 7 32	28 0 54
	O Sept	30 5 6	29 22 44		SEPT	26 20 16	26 9 58
	Ост	29 17 59	29 17 20		Oct	26 9 0	25 21 6
	Nov.	28 6 34	28 12 7		Nov	24 21 44	24 10 40
	DEC	27 19 18	28 5 38		DEC.	24 10 28	24 2 81
	DEG	2. 10 10	20 0 00				
	т	00 0 0	00.00.40		0	68 4 51	8 18 89
955. G.	JAN	26 8 3	26 20 53	958.	JAN	22 23 13	22 20 10
u.	FEB	24 20 47	25 9 21	c.	FEB	21 11 57	21 14 22
16 5 50	O Mar	11 15 9	11 11 22	15 23 16	MAR	28 0 41	28 7 56
10 5 50		26 9 31	26 19 14		APRIL	21 18 25	21 28 48
	APRIL	24 22 15	25 3 13		MAY .	21 2 9	21 18 6
	MAY.	24 10 59	24 10 9		June.	19 14 58	20 0 5
	June.	22 23 43	22 17 7		0	6 4 9 15	8 22 8
	JULY.	22 12 27	22 1 12		JULY .	[19 8 87	19 9 17
	Aug	21 1 11	20 11 28		Aug	17 16 21	17 17 88
	O Sept	4 19 33	5 0 44		SEPT	16 5 5	16 2 8
	_	(19 13 55	19 0 42		Ост	<b>15 17 4</b> 9	15 11 29
	Nov.	19 2 39	18 16 57		Nov	14 6 83	18 22 11
	70	17 15 23 17 4 7	17 11 34		DEC	(18 19 17	18 10 29
	DEC	17 4 7	17 7 8		0	<b>28 18 3</b> 9	29 0 42
						н	

Mean Vermil Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. () Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 959.		d. h. m.	d. h. m.	A.D. 962.		d. h. m.	d. h. m.
в.	JAN	12 8 1	12 0 23	E.	JAN	8 23 11	9 5 41
March. $d. h. m.$	FEB	10 20 45	10 15 42	March. $d. h. m.$	FEB	7 11 55	7 16 3
16 5 5	MAR	12 9 29	12 8 0	15 22 31	MAR.	9 0 39	9 1 24
1	APRIL	10 22 13	11 0 34		APRIL	(7 13 23	7 10 13
	MAY .	10 10 57	10 16 33		0	22 7 45	22 19 51
	June .	(8 23 41	9 7 12		MAY.	7 2 7	6 19 17
	0	23 18 3	23 9 21		June .	5 14 51	5 5 31
	July.	8 12 25	8 20 7		JULY.	5 3 35	4 17 39
	Aug	7 1 9	7 7 27		Aug	3 16 19	3 8 2
	SEPT	5 13 53	5 17 42		SEPT	2 5 3	2 0 24
	Our	5 2 37	5 3 36			1 17 47	1 17 55
	Nov	3 15 21	3 13 44		Oct. O	16 12 9	16 3 15
	Dec	3 4 5	3 0 24			31 6 31	31 11 29
			İ		Nov	29 19 15	30 4 2
					DEC	29 7 59	29 18 46
960.	JAN	1 16 50	1 11 44				
A.G.		(31 5 34	30 23 46	963.	Jan	27 20 44	28 7 22
1	FEB	29 18 18	29 12 36	D.	FEB	26 9 28	26 17 49
15 10 54	MAR	80 7 2	30 2 23	16 4 20	MAR.	27 22 12	28 2 34
	APRIL	28 19 46	28 17 7	10 1 10	0	(11 16 34	11 22 10
	MAY .	28 8 30	28 8 27		APRIL	26 10 56	26 10 15
	JUNE.	26 21 14	26 23 47   26 14 32		MAY .	25 23 40	25 17 48
	JULY.	24 22 42	25 4 16		JUNE .	24 12 24	24 2 15
	Aug.	28 11 26	23 16 57		JULY .	24 1 8	23 12 39
	SEPT.	23 11 20	23 4 48		Aug	22 13 52	22 1 44
	Oct	21 12 54	21 16 9		SEPT	21 2 36	20 17 38
	Nov	21 1 38	21 3 8		0	( 5 20 58	5 19 19
	DEC	21 1 00	21 0 0	Ì	Ocr	120 15 20	20 11 43
					Nov.	19 4 4	19 6 46
961.	JAN	19 14 28	19 13 50		DEC	18 16 48	19 1 12
F.	FEB	18 8 7	18 0 17				
15 16 48	MAR	19 15 51	19 10 51	964.	JAN	17 5 32	17 17 44
	APRIL	18 4 35	17 22 7	C.B.	FEB	15 18 16	16 7 33
	0	§ 2 22 57	3 10 28	15 10 9	MAR	16 7 0	16 18 35
	MAY .	17 17 19	17 10 34		APRIL	14 19 44	15 3 17
	June .	16 6 3	16 0 30		MAY .	14 8 28	14 10 31
	July .	15 18 47	15 15 48		JUNE .	12 21 12	12 17 15
	Aug.	I.	14 7 41		July .	12 9 56	12 0 37
	SEPT.	1	12 28 40		Aug.	. 10 22 40	10 9 43
	Ocr.	. 12 8 59	12 14 57		SEPT.		
	0	27 8 21	1		Oct.	I	1
	Nov.	. 10 21 43	11 5 9		Nov.		
	DEC.	. 10 10 27	10 18 4		DEC.	. 7 1 36	7 1 17
	ļ					1	1

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 965.		d. h. m.	d. h. m.	A.D. 968.		d. h. m.	d. 11. nz.
A.	JAN.	5 14 21	5 20 44	E.D.	JAN	3 5 31	2 21 32
March.	FEB	(4 3 5	4 14 36	March.	FEB	1 18 15	1 11 57
d. h. m.	0	18 21 27	18 16 49	d. h. m.	MAR.	f 2 6 59	2 3 32
15 15 58	MAR	5 15 49	6 5 45	15 9 24	TITALIC	(31 19 43	31 19 48
	April	4 4 33	4 17 47		APRIL	30 8 27	30 12 O
	Max .	3 17 17	4 3 7		MAY.	29 21 11	30 3 20
	June .	2 6 1	2 10 34		0	∫13 15 33	13 9 G
	T	( 1 18 45	1 17 16		JUNE .	(28 9 55	28 17 14
	JULY.	(31 7 29	31 0 19	ı	JULY.	27 22 39	28 5 31
i l	0	(15, 1.51	15 4 46		Aug	26 11 23	26 16 80
	Aug	29 20 13	29 8 44		Sept	25 0 7	25 2 46
	SEPT	28 8 57	27 19 27		Oct	24 12 51	24 12 57
	Oct	27 21 41	27 9 1		Nov	23 1 35	22 23 28
1	Nov	26 10 25	26 1 23	·	_ 0	7 19 57	7 22 56
	DEC	25 23 9	25 19 51		DEC	(22 14 19	22 10 27
000	-	0	0. 47 6	969.	JAN	21 3 4	20 21 59
966. G.	JAN	24 11 54	24 15 6	c.	FEB	19 15 48	19 10 8
"	_ O	8 6 16	8 7 37	15 15 13	MAR	21 4 32	20 28 7
15 01 47	FEB	(23 0 38	23 9 29		APRIL	19 17 16	19 18 7
15 21 47	MAR	24 13 22	25 1 41		MAY.	19 6 0	19 4 1
	APRIL MAY.	23 2 6 22 <b>14</b> 50	23 15 1 23 1 33		0	(3 0 22	3 2 8
	JUNE .	21 3 34	23 1 33 21 10 1		JUNE.	17 18 44	17 19 28
	JULY.	20 16 18	20 17 26	,	July.	17 7 28	17 10 85
		(4 10 40	4 5 25		Aug.	15 20 12	16 1 5
	Aug	19 5 2	19 0 51		SEPT	14 8 56	14 14 81
	SEPT.	17 17 46	17 9 18		Oct	13 21 40	14 8 7
	Ост.	17 6 30	16 19 28		Nov	∫12 10 24	12 14 55
	Nov.	15 19 14	15 7 51		0	27 4 46	26 22 6
	DEC	15 7 58	14 22 33		DEC	11 23 8	12 2 10
				970.	JAN	10 11 52	10 12 57
967.	Jan	∫13 20 42	13 15 14	В.	FEB	9 0 36	8 28 20
F.	_ 0	28 15 4	28 23 34	15 21 2	MAR	10 13 20	10 9 88
10 000	FEB	12. 9 26	12 9 3		APRIL	9 2 4	8 20 6
16 3 36	MAR.	13 22 10	14 2 54	H	MAY.	8 14 48	8 7 38
	APRIL	12 10 54	12 19 32		0	23 9 10	23 18 28
	MAY.	11 23 38	12 10 7		JUNE.	7 3 32	6 20 88
	JUNE .	10 12 22	10 22 19		July.	6 16 16	6 11 18
	JULY .	10 1 6	10 8 28		Aug	5 5 0	5 8 0
	AUG Sept	8 13 50 7. 2 34	8 17 18		SEPT	3 17 44	8 19 17
l	Oct.	6 15 <b>1</b> 8	7 1 49	H	Ост	3 6 28	8 11 15
	Nov.	5. 4. 2	6 10 52 4 21 1		Nov.	1 19 12	2 2 20
	DEC.	4 16 46	4 21 1 4 8 31	1	0	(16 13 34	16 1 55
i		= 10 ±0	= 0.91		DEC	1 7 56	1 16 6
*	·		1	PT .	1	(30 20 40	31 4 28

Menn Vernal Equipox,	Month.	Menn New Moon, (○ Full Ecl.) (	True New Moon. O Full Ecl.	Mean Vernal Equinox.	Month,	Mean New Moon.	True New Moon. (O Full Ecl.)
A.D. 971.		d. h. m.	d. h. m.	A.D. 974.	AND THE PERSON NAMED OF TH	d. h. m.	d. h. m.
A.	Jan	29 9 25	29 15 22	D.	JAN	26 0 85	26 9 54
March. $d, h, m$	Fan	27 22 9	28 1 1	Mamali	FEB	24 18 19	25 2 26
16 2 51	MAR	29 10 58	29 9 49	March. $d. h. m.$	O	(11 7 41	11 2 32
į	Aran.	27 28 87	27 18 25	15 20 17	MAR	<b>\( \) 26 2 3</b>	26 15 57
	MAY .	27 12 21	27 8 45		APRIL	24 14 47	25 2 29
	June .	26 1 5	25 14 48		MAY .	24 8 81	24 10 48
	July .	25 18 49	25 8 57		June.	22 16 15	22 17 40
	Ava	24 2 88	28 19 29		July.	22 4 59	22 0 27
	SEPT	22 15 17	22 12 48		Aug	20 17 48	20 8 11
	Ocr	22 4 1	22 6 88		SEPT	19 6 27	18 17 47
	Nov	20 16 45	21 0 8		Oct	18 19 11	18 5 57
	DEC	20 5 29	20 15 55		Nov	17 7 55	16 20 59
		1			DEC	16 <b>2</b> 0 <b>3</b> 9	16 14 29
972.	JAM	18 18 14	19 5 40				
G. <b>Y.</b>	Fan	17 6 58	17 17 4	975.	JAN	15 9 28	15 9 24
15 8 40	MAR	17 19 42	18 2 27	С,	FEB.	18 22 7	14 4 16
	O	15 1 14 4	1 17 19	16 2 6	MAR.	15 10 51	15 21 88
	Armin	્રાદિક 26	16 10 28	200	APRIL	18 28 85	14 12 17
	MAY .	- 15 21 10 i	15 17 48		MAY.	18 12 19	14 0 10
	Junn.	14 9 54	14 1 28		June .	12 1 8	12 9 86
	Jun.	18 22 88	18 10 48		July .	11 18 47	11 17 80
	Ava	12 11 22	11 22 25		Aug	10 2 81	10 0 56
	Bert	311 0 6	10 18 0		SEPT.	8 15 15	8 8 56
	O	\$32 1H 3H	25 18 46		Ocr	8 8 59	7 18 19
	Oct	10 12 50	10 6 15		Nov	6 16 48	6 5 89
1	Nov	9 1 84	9 1 8		DEC	6 5 27	5 19 10
	Date	8 14 18	8 20 11				
		7 0 0	7 18 54	976.	JAN	( 4 18 12	4 10 50
973.	JAN.	7 8 2 5 15 48	6 5 6	B.A.	0	19 12 84	19 22 21
	Fun.		7 17 25		FEB	8 6 56	8 8 59
15 14 20	MAR	21 22 52	21 18 48	15 7 55	MAR	8 19 40	8 21 44
	Arrib	B 17 14	6 8 6	1	APRIL	2 8 24	2 14 55
	MAY		5 10 50		MAY .	5 1 21 8	2 6 80
	Junk		8 17 86		MAA I	81 9 52	
	July	1	8 0 80		JUNK .	29 22 86	80 7 8
		c 1 20 10	1 8 87		0	§14 16 58	14 5 5
	Atta.	· {81 8 84	80 19 1		July .		29 16 42
	0	(15 8 16	15 8 88		Aug	28 0 4	28 1 80
	BEPT.	14	\$			26 12 48	
	Oct.		1	19	1	26 1 82	
		. 27 28 6			Nov.		
	DEC.	. 27 11 50	27 15 4		Dac.	. 24 8 0	28 19 12
		4					

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Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 977.		d. h. m.	d. h. m.	A.D. 980.		d. h. m.	d. h. m.
G.	_	(72122	8 9 7	D.C.	JAN	20 6 55	20 14 29
	O Jan	22 15 45	22 8 45	March.	FEB	18 19 39	19 0 86
March.	FEB.	21 4 29	20 23 31	$egin{array}{c cccc} d. & h. & m. \\ 15 & 7 & 10 \\ \end{array}$	MAR.	19 8 23	19 9 32
d. h. m. 15 13 44	MAR.	22 17 13	22 15 13	20 . 20	APRIL	17 21 7	17 17 54
10 10 44	APRIL	21 5 57	21 7 19		0	(2 15 29	3 2 47
	MAY.	20 18 41	20 23 4		May.	17 9 51	17 2 84
	June .	19 7 25	19 13 48		JUNE.	15 22.35	15 12 28
	0	(4 1 47	3 16 38		JULY.	15 11 19	15 0 27
	JULY.	18 20 9	19 3 3		Aug	14 0 8	13 14 54
	Aug.	17 8 53	17 14 52		SEPT	12 12 47	12 7 81
	SEPT	15 21 37	16 1 41		Oct	(12 1 31	12 1 27
	Oct	15 10 21	<b>1</b> 5 12 6		0	26 19 53	26 11 52
	Nov	13 23 5	13 22 35		Nov	10 14 15	10 19 29
	Dec	13 11 49	13 9 23		DEC	10 2 59	10 12 26
978.	Jan	12 0 33	<b>1</b> 1 20 32	981.	Jan	8 15 43	9 8 21
F.	FEB	10 13 17	10 8 8	В.	FEB	7 4 27	7 15 52
15 19 83	MAR	12 2 1	<b>11 2</b> 0 22	15 12 59	MAR	8 17 11	9 2 5
	APRIL	10 14 45	10 9 32	20 22 00	APRIL	(7 5 55	7 10 29
	MAY .	10 3 29	9 23 47		0	22 0 17	22 4 54
	JUNE .	8 16 13	8 <b>1</b> 4 53		MAY .	6 18 39	6 17 51
	JULY.	8 4 57	8 6 17		JUNE .	5 7 28	5 1 7
1	Aug	6 17 41	6 21 24		JULY .	4 20 7	4 9 25
1	SEPT	5 6 25	<b>5 1</b> 1 40		Aug	8 8 51	2 19 48
	Oct	4 19 9	5 0 58		SEPT	1 21 35	1 8 58
1	Nov.	3 7 53	3 13 23			1 10 19	1 1 4
	DEC	2 20 37	3 1 3		Oct. O	16 4 41	16 8 52
		(1 9 22	1 12 7			(30 23 8	80 19 25
979.	JAN	30 22 6	30 22 33		Nov	29 <b>11 4</b> 7	29 14 44
E.	FEB	(80 22 0	00 22 55		DEC	29 0 81	29 9 28
1		( 1 10 50	1 8 34				
16 1 22	MAR	30 23 34	30 18 36	982.	JAN	27 13 16	28 1 57
	APRIL	29 12 18	29 5 17	A.	FEB	26 2 0	26 15 42
1	0	(14 6 40	14 17 45	15 18 48	MAR.	27 14 44	28 2 80
	MAY .	29 1 2	28 17 18		APRIL	26 3 28	26 10 58
1	June.	27 13 46	27 7 1		MAY .	25 16 12	25 18 1
	July .	27 2 30	26 22 20		JUNE .	24 4 56	24 0 41
	Aug	25 15 14	25 14 37		JULY .	23 17 40	28 8 4
1	SEPT	24 3 58	24 7 5		AυG	22 6 24	21 17 16
	Oct	23 16 42	23 22 58		SEPT	20 19 8	20 5 10
	0	7 11 4	6 23 0		Oct	20 7 52	19 20 9
	Nov.	122 5 26	22 13 40		Nov	18 20 86	18 18 58
	DEC	21 18 10	22 2 52		DEC	18 9 20	18 9 15
L	<u> </u>		1		1		İ

Mean Vernal Equinox,	Month.	Mean New Moon. () Full Ecl.)(	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)
A.D. 983. u.	Jan	d. h. m. 16 22 5	d. h. m.	A.D. 986.	Jan	d. h. m.	d. h. m. 13 6 5
March, d h, m, 16 0 87	Fen	15 10 49 ( 2 5 11 ( 16 28 88	15 22 24 2 1 0 17 18 28	March. d. h. m. 15 18 3	FEB MAR APRIL	12 1 59 18 14 48 12 8 27	11 20 0 13 10 59 12 2 41
	APRIL MAY . JUNK .	15 12 17 15 1 1 18 18 45	16 1 17 15 10 82 18 17 59		May . June . O	$     \begin{array}{ccccccccccccccccccccccccccccccccc$	11 18 33 10 9 52 24 16 28
		18 2 29 (11 15 18 (26 9 85	18 0 46 11 8 1 26 11 47		July . Aug Sept	9 17 89 8 6 28 6 19 7	10 0 0 8 12 44 7 0 16
	Sket Oct Nov	10 8 57 9 16 41 8 5 25 7 18 9	9 16 41 9 8 87 7 17 16 7 9 85		Oct Nov Dec	$ \begin{array}{c cccc} 6 & 7 & 51 \\ 4 & 20 & 85 \\ 4 & 9 & 19 \\ 19 & 8 & 41 \end{array} $	6 11 5 4 21 42 4 8 26 19 6 57
984. F.E.	Jan Fru	6 6 58 ( 4 19 87	6 8 51 4 22 46	987. B.	Jan Feb	2 22 3 1 10 47	2 19 21 1 6 82 2 18 9
15 6 26	MAR April May	5 8 21 8 21 5 8 9 40	19 16 8 5 16 52 4 8 50 8 22 6	15 28 52	MAR April May .	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{cases} 1 & 6 & 31 \\ 80 & 19 & 58 \\ 80 & 10 & 80 \end{cases} $
	June .	1 22 83 { 1 11 17 { 81 0 1	2 8 48 1 17 20 81 1 1		O June . July .	$ \begin{cases} 14 & 8 & 5 \\ 29 & 2 & 27 \\ 28 & 15 & 11 \end{cases} $	14 9 88 29 1 49 28 17 16
	О <b>A</b> va Вкет	{14 18 28 29 12 45 24 1 29	14 12 11 29 8 48 27 17 85		Aug Sept Oct	27 8 55 25 16 89 25 5 28	27 8 15 25 22 21 25 11 28
	Oct Nov Dzc	27 14 18 26 2 57 25 15 41	27 4 0 25 16 26 25 6 58		Nov O Dec	$     \begin{cases}       28 & 18 & 7 \\       8 & 12 & 29 \\       28 & 6 & 51     \end{cases} $	28 28 42 8 6 11 28 11 6
985. p.	Jan O Fen	24 4 26 { 7 22 48 22 17 10	28 28 16 8 8 9 22 16 85	988. A.G. 15 5 41	JAN Feb Mar	21 19 86 20 8 20 20 21 4 19 9 48	21 21 48 20 7 48 20 17 81 19 8 82
15 13 15	MAR APRIL MAY .	24 5 54 22 18 88 22 7 22	24 9 59 28 2 20 22 16 52		MAY . O JUNE .	19 9 48 18 22 82 2 16 54 17 11 16	18 14 84 8 1 45
	JULY.	20 20 6 20 8 50 4 8 12 18 21 84	1		JULY . Aug Skpt	17 0 0 15 12 44	16 17 48 15 9 48
Transference variables	Aug Beet Oct Nov	17 10 18	17 10 0 16 19 27		Oct Nov	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	18 19 4 12 10 40 26 10 22
	Dac	18 0 80		ACCIDING THE THE SECOND OF THE SECOND	DEC.	. 11 15 40	12 0 49

Mean		Mean New	True New	Mean	Month.	Mean New Moon.	True New Moon.
Vernal Equinox.	Month.	Moon. (O Full Ecl.)	Moon. (O Full Ecl.)	Vernal Equinox.	MTOTINII.	(O Full Ecl.)	(O Full Ect.)
							A CARROLL NAVA ANALONIA MARKATANA
A.D. 989.		d. h. m.	d. h. m.	A.D. 992.	_	d. h. m.	d. h. m.
F. March.	JAN	10 4 24	10 13 16	с.в. March.	JAN	7 19 34	7 23 1
d. h. m.	FEB	8 17 8	9 0 0	d. h. m.	FEB	6 8 18	6 17 42
15 11 29	MAR	10 5 52	10 9 18	15 4 56	Mar	$ \begin{cases} 6 21 & 2 \end{cases} $	7 10 3
	APRIL	8 18 36	8 17 39		. 0	(21 15 24	21 10 22
	MAY .	8 7 20	8 1 50		APRIL	5 9 46	5 23 26
	JUNE .	6 20 4	6 10 49		MAY.	4 22 30	5 9 51
	$\mathbf{J}_{\mathtt{ULY}}$ .	6 8 48	5 21 36		JUNE.	3 11 14	3 18 4
	Aug	4.21 32	4 10 47		July.	2 23 58	3 1 7
	SEPT	3 10 16	3 2 29		Aug	$\int 1 12 42$	186
	Oct	2.23 0	2 20 5		1200.	(31 1 26	80 16 4
	Nov	1 11 44	1 14 27		0	<b>14 19 48</b>	14 28 16
	D	§ 1 0 28	1 8 17		SEPT	(29 14 10	29 1 55
	DEC	<b>\</b> 30 13 12	31 0 23		Ocr	29 2 54	28 14 14
					Nov	27 15 88	27 5 16
990.	JAN	29 1 57	29 14 9		Dec	27 4 22	26 22 85
E.	FEB.	27 14 41	28 1 22		,		
15 17 18	MAR.	29 3 25	29 10 28	993.	JAN	25 17 7	25 17 14
10 11 10	0	(12 21 47	13 0 9	Α.	FEB	24 5 51	24 11 48
	APRIL	27 16 9	27 18 4	15 10 45	MAR	25 18 85	26 4 46
	MAY .	27 4 53	27 1 9		APRIL	24 7 19	24 19 21
	June .	25 17 37	25 8 42		MAY .	23 20 3	24 7 14
	JULY.	25 6 21	24 17 54		JUNE .	22 8 47	22 16 49
1	Aυg	23 19 5	23 5 39		JULY .	21 21 81	22 0 59
	SEPT	22 7 49	21 20 23		Aug	20 10 15	20 8 46
	0	7 2 11	7 3 9		SEPT	18 22 59	18 17 8
	Oct	21 20 33	21 13 52		Oct	18 11 48	18 2 50
†	Nov	20 9 17	20 9 0		Nov	17 0 27	16 14 18
	DEC	19 22 1	20 4 17		DEC	16 13 11	16 8 45
991.	JAN	18 10 46	18 22 4	994.	JAN	(15 1 56	14 19 8
D.	FEB	16 23 30	17 13 13	a.	0	29 20 18	80 6 59
15 23 7	MAR	18 12 14	19 1 21		FEB	18 14 40	18 11 44
	0	(2 6 36	2 1 58	15 16 34	MAR	15 3 24	15 4 57
	APRIL	17 0 58	17 10 49		APRIL	18 16 8	18 21 45
	MAY .	16 13 42	16 18 22		MAY .	18 4 52	13 13 12
	June .	15 2 26	15 1 2		JUNE.	11 17 86	12 2 42
	JULY .	14 15 10	14 7 56		July.	(11 6 20	11 14 18
	Aug	13 3 54	12 16 10		0	26 0 42	25 12 8
	SEPT.	11 16 38		II .	Aug	9 19 4	10 0 18
	0	126 11 (	26 16 31	1	SEPT	8 7 48	8 9 30
	Ост.	11 5 22	10 16 13		Oct	7 20 32	7 18 52
	Nov.	9 18 6	9 8 43	1	Nov	6 9 16	6 4 55
	DEC.	. 9 6 50	9 3 28		DEC	5 22 0	5 15 54
1			]				

Equinox.	Month.	Mean New Moon.	Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon.  O Full Ecl.)
A.D. 995.		d. h. m.	d. h. m.	A.D. 998.		d. h. m.	d. h. m.
F.	JAN	j <b>4</b> 10 44	4 3 55	В.	т	1 1 54	<b>1 1</b> 1 <b>3</b> 8
March.	0	19 5 6	19 17 25	]	Jan	े30 14 38	30 23 10
d. $h.$ $m.$	FEB	2 23 28	2 17 2	March.	FEB	•••	
15 22 22	MAR	4 12 12	4 7 12	d. h. m. 15 15 49	MAR	∫ 1 3 22	1 9 0
	APRIL	3 0 56	2 22 18	10 10 40	ILIAN.	(30 16 6	30 17 32
	MAY.	2 13 40	2 13 57		$\mathbf{A}_{\mathtt{PRIL}}$	29 4 50	29 1 29
	JUNE.	1 2 24	1 5 34		0	∫13 23 12	14 9 37
		(30 15 8	30 20 24		MAY .	28 17 34	28 9 46
	_ 0	15 9 30	15 0 1		June .	27 6 18	26 19 25
	July.	30 3 52	30 10 0		JULY.	26 19 2	26 7 19
•	Aug	28 16 36	28 22 22		Aug	25 7 46	24 21 51
	SEPT	27 5 20	27 9 46		SEPT	23 20 30	23 14 45
	Oct	26 18 4	26 20 42		Ост	23 9 14	23 9 5
	Nov.	25 6 48	25 7 29		. 0	7 3 36	6 20 36
	DEC	24 19 32	24 18 20		Nov.	21 21 58	22 3 34
İ					DEC	21 10 42	21 20 47
996.	JAN	23 8 17	23 5 17	999.	JAN	19 23 27	20 11 50
E.D.	FEB	21 21 1	21 16 23	▲.	FEB	18 12 11	19 O 14
15 4 11	MAR	22 9 45	22 4 2	15 21 38	MAR	20 0 55	20 10 12
	APRIL	20 22 29	20 16 39		APRIL	18 13 39	18 18 <b>1</b> 8
	MAY .	20 11 13	20 6 26		0	3 8 1	3 11 34
	June.	18 23 57	18 21 19		MAY .	18 2 23	<b>1</b> 8 <b>1</b> 21
	July .	18 12 41	18 12 51		JUNE .	16 15 7	16 8 28
	Aug.	17 1 25	17 4 20		JULY .	16 3 51	<b>1</b> 5 16 <b>4</b> 1
	SEPT	15 14 9	15 19 11		Aug	14 16 35	14 3 4
	Ocr	15 2 58	15 9 7		SEPT	13 5 19	12 16 22
	Nov.	13 15 37	13 22 2		Oct	12 18 3	12 8 39
	DEC	18 4 21	18 9 58		0	27 12 25	27 12 31
					Nov.	11 6 47	11 3 16
997.	JAN.	11 17 5	11 20 59	1	DEC	10 19 31	10.22 45
C.	FEB	10 5 49	10 7 9	1000.	JAN	9 8 16	9 17 29
<b>15</b> 10 0	MAR.	11 18 84	11 16 45	G.F.	FEB	7 21 0	8 10 2
	APRIL	10 7 18	10 2 15	15 3 27	MAR	8 9 44	8 23 37
	MAY .	1 *			APRIL	6 22 28	7 10 14
1	1~0	24 14 24	1		MAY .	6 11 12	6 18 34
	JUNE .	1	8 0 5		J'une	4 23 56	5 1 28
	JULY .				JULY	1	1
	Aug.				Aug.	1	1
	SEPT.	4 11 42			SEPT.	1	1100 19 9
	Oor.	. (3 0 26	1		Ocr.	1252	• •
	Nov.	17 18 48				(30 15 36	
	DEC.	2 18 10			Nov.	00.45	
1	L) MCC.	. 10 10			DEC.	. 28 17 4	20 1/ 10

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True Now Moon. (O Full Ect.)
A.D. 1001.		d. h. m.	d. h. m:	A.D. 1004.		d. h. m.	d. h. m.
E.	JAN	27 5 48	27 12 27	B.A.	JAN	24 20 58	24 14 34
	FEB	25 18 32	26 6 2	March.	FEB.	23 9 42	23 3 56
d. $h.$ $m.$	0	(12 12 54	12 9 4	d. h. m. 15 2 42	MAR	23 22 26	23 18 18
15 9 15	MAR	27 7 16	27 20 51		APRIL	22 11 10	22 9 <b>3</b> 0
	APRIL	25 20 0	26 8 39		MAY.	21 23 54	22 1 8
	MAY.	25 8 44	25 17 51		JUNE.	20 12 38	20 16 22
	JUNE.	23 21 28	24 1 22		0	(570	4 23 51
	JULY.	23 10 12	23 8 20		JULY.	$\{20 \ 1 \ 22\}$	20 6 46
	Aug	21 22 56	21 15 50		Aug	18 14 6	18 19 59
	0	f 5 17 18	5 18 56		SEPT	17 2 50	17 8 7
	SEPT	(20 <b>1</b> 1 40	20 0 46		Ocr	16 15 34	16 19 29
	Oct	20 0 24	19 11 55		Nov	<b>1</b> 5 4 18	15 6 80
	Nov	<b>1</b> 8 13 8	18 1 37		DEC	(14 17 2	14 17 24
	DEC	18 1 52	17 17 49		0	29 11 24	29 14 54
1002.	JAN	16 14 37	16 11 48	1005.	JAN	13 5 46	13 4 12
D.	FEB	15 3 21	15 6 20	G.	Fев	1.1 18 31	11 15 1
	0	$\int 1 21 43$	2 0 32	15 8 31	MAR	13 7 15	13 2 5
15 15 4	MAR	16 16 5	17 0 5		APRIL	11 19 59	11 18 51
	APRIL	<b>1</b> 5 4 49	15 15 53		MAY .	11 8 43	11 2 47
	MAY.	14 17 33	15 5 6		June .	$  \int 92127  $	9 17 1
	JUNE.	13 6 17	13 15 49		0	$  \{ 24 \ 15 \ 49   $	24 17 0
	JULY.	12 19 1	13 0 41		July.	9 10 11	9 8 18
	Aug	<b>∫11</b> 7 45	11 8 43		Aug	7 22 55	8 0 1
	0	26 2 7	25 19 5		Sept	6 11 39	6 15 82
	SEPT	9 20 29 9 13	9 16 53		Oct	6 0 23	6 6 16
	Nov	9 9 13 7 21 57	9 2 1		Nov	4 13 7	4 19 56
	DEC.	7 10 41	7 12 40 7 1 7		DEC	$\int_{0}^{\infty} \frac{4}{3} \left[ 1 \right] \frac{51}{3}$	4 8 82
1000	_		7 1 7		0	( <b>1</b> 8 20 13	18 1 <b>4 16</b>
1003. c.	JAN	5 23 25	5 15 23	1006.	JAN	2 14 35	2 20 8
	FEB	$\int 4 12  9$	4 7 12	F.	FEB	1 3 19	1 6 81
15 20 53	V	19 6 31	19 16 37	15 14 20	MAR	2 16 3	2 <b>16 9</b>
10 20 55	MAR.	6 0 53	6 0 0		APRIL	$\int 1  4  47$	1 121
	MAY.	4 13 37	4 16 55		121 1111	30 17 81	80 1 <b>0 51</b>
	JUNE .	4 2 21 2 15 5	4 9 2		MAY .	80 6 15	29 <b>21 28</b>
	U CME	2 15 5	2 23 33 2 12 8		_ 0	<b>∫14</b> 0 37	14 8 59
	JULY.	31 16 33	2 12 8 31 23 1		JUNE.	(28 18 59	28 9 56
	0	(15 10 55	14 21 56		JULY.	28 7 48	28 0 25
	ATG	30 5 17	30 8 48		Aug	26 20 27	26 16 89
	SEPT.	28 18 1	28 18 17		SEPT	25 9 11	25 9 51
	Ocr	28 6 45	28 4 7		Oct	24 21 55	25 2 58
	Nov	26 19 29	26 14 42		Nov	28 10 39	28 19 8
	Dr.	26 8 13	26 2 10		DEC	$\begin{bmatrix} 8 & 5 & 1 \\ 22 & 23 & 23 \end{bmatrix}$	7 18 58 23 9 29
<u>'</u>		1	1				-5 ., 25

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)(	True New Moon. O Full Ecl.)
Vernal	JAN FEB MAR APRIL MAY . JUNE . JULY . AUG OCT NOV DEC  JAN FEB MAR APRIL	Moon.	Moon.	Vernal Equinox.  A.D. 1010. A. March. d. h. m. 15 18 35	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEPT O OCT NOV DEC	Moon.  d. h. m.  18 3 18 16 16 2 18 4 46 { 1 23 8 16 17 30 16 6 14 14 18 58 14 7 42 12 20 26 { 11 9 10	Moon. O Full Ecl.)  d. h. m.  18 6 52 17 1 20 18 17 32 1 18 5 17 6 46 16 17 9 15 1 25 14 8 37 12 15 51 11 0 7 26 6 45 10 10 12 8 22 40 8 13 37  7 6 42 6 0 55
15 1 57		1			1	6 0 51 7 13 35 6 2 19 5 15 3 4 3 47 3 16 31 { 2 5 15 30 6 43 29 19 27	
1009. B. 15 7 46	JAN FEB MAR O APRIL MAY . JUNE . JULY . AUG SEIT O Oct Nov. DEC.	25 10 9 24 22 58 28 11 87 22 0 21 6 18 48 21 18 5	27 18 28 27 1 50 25 8 29 24 15 28 22 28 51 21 10 84 5 21 0 14 6 19 16 47	1012. F.E. 15 1 18	JAN. O FEB. MAR. APRIL MAY JUNE JULX O AUG. SEPT. OCT. Nov. DEC.	28 28 51 28 12 33 22 1 19 21 14 6 5 8 26 20 2 4 18 15 30 18 4 19	10 15 27 3 24 19 19 25 12 2 24 4 30 23 19 49 22 9 27 3 21 21 19 4 19 17 7 20 7 48 1 18 17 36 5 18 3 26 9 16 13 45

Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon. (O Full Ecl.)	Mean Vernal Equinox.	Month.	Mean New Moon. (O Full Ecl.)	True New Moon.
A.D. 1013. D.	Jan	d. h. m.	d. h. m. 14 12 36	A.D. 1016.	Jan	d. h. m. 12 9 38	d. h. m. 12 20 20
March.	0	29 12 50	30 1 38	March. $d. h. m.$	FEB	10 22 22	11 7 45
d. h. m.	FEB	13 7 12	13 1 13	15 0 28	MAR	11 11 6	11 17 16
15 7 1	MAR.	14 19 56	14 14 47		APRIL	9 23 50	10 1 25
	APRIL	13 8 40	13 5 19		MAY .	5 9 12 34	9 8 59
	MAY.	12 21 24	12 20 33		0	24 6 56	24 16 22
	JUNE.	11 10 8	11 12 0		JUNE .	8 1 18	7 17 0
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	Aug.	25 17 14	25 7 28		Aug	6 2 46	5 14 20
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	DEC	5 14 32	5 16 27	}	0	$(2 \ 5 \ 42)$	17 5 26
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С.	FEB	2 16 1	2 13 55	1017.	JAN	<i>s</i>	1 5 6
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	APRIL	2 17 29	2 11 37		FEB	28 19 54	•••
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	JULY.	29 20 25	29 19 28		MAY.	(28 10 6	28 8 50
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	Ост	26 10 37	26 17 22		Aug	25 0 18	24 10 80
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